Product Catalog

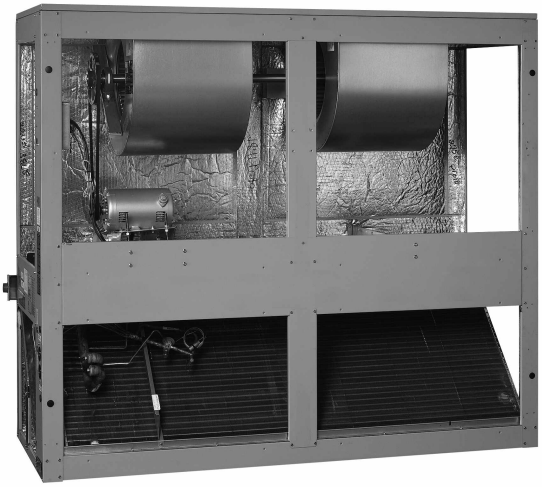
Split System Air Conditioners
Odyssey™

Cooling Condenser — 5 to 20.9 Tons — 50 Hz
Air Handler — 4.6 to 20.9 Tons — 50 Hz

March 2015

SS-PRC029G-EN

Introduction



Trane's reputation for providing quality comfort solutions continues with the development of the next generation Light Commercial Odyssey Split Systems.

With wide network availability, flexible applications, installation ease, built-in reliability and easy servicing, Odyssey will meet any number of customer applications. Add to that Trane's outstanding customer service and you have the formula to make Odyssey the clear choice for continued customer satisfaction.

Wide network availability

A broad distribution network provides owners, maintenance personnel, contractors, etc., the means to get their hands on equipment when they need it. Whether it's an emergency replacement or a new construction project in its infancy stages, Odyssey products meet an array of needs at the right time and right price.

Flexible applications

No matter what the application, Odyssey provides the solution. A broad array of models and tonnages are available with single or dual compressors, single or dual circuits and numerous accessories. Condensing units can be installed on the ground or on a rooftop along with extended piping runs, while air handlers can be free discharge on the ground or horizontally suspended with long duct runs from a ceiling. Should application challenges arise, Odyssey delivers.

Easy to install

Small footprints and low weights combined with factory installed components like TXVs, filter driers, etc., reduce installation time and cost. Colored and numbered wiring and factory tested units make Odyssey the right choice.

Built-in reliability

Keeping in mind that productivity only occurs when equipment is operational,Trane has taken the steps to ensure that Odyssey is up and running. Early indicators such as phase/reversal monitors and loss of charge protection provide diagnostics which prevent failure and provide years of worry-free service and operation.

©2015 Trane All rights reserved

Easy to service

When preventive maintenance or service is required, technicians will find efficient access to both air handlers and condensers. Panels provide complete, easy access coupled with standardized cabinets in which all components are located in proximity. Odyssey's improved design results in minimum service times and costs.

With these capabilities, Odyssey provides customers high efficiency and superior performance for the best all-around value in the market today.

Copyright

This document and the information in it are the property of Trane, and may not be used or reproduced in whole or in part without written permission. Trane reserves the right to revise this publication at any time, and to make changes to its content without obligation to notify any person of such revision or change.

Trademarks

All trademarks referenced in this document are the trademarks of their respective owners.

Revision History

- Microchannel is now standard on 5–8.33 ton single and dual compressor units. All data has been updated to reflect this change.
- With the change to Microchannel, the Odyssey split system now offers a new 6.25 ton, dual compressor model that can be matched with a new 6.25 ton, dual circuit standard air handler. The 7 ton model has been discontinued.
- Complete Coat™ is now available for Microchannel units only, in lieu of epoxy coated fins. See Features & Benefits for more information.

Table of Contents

Features 6
- Split System Overview 6
- Standard and Optional Features 7
- Standard and Optional Controls 9

Application Considerations 12
- Clearance Requirements 12
- 180° Blower Rotation 12
- Low Ambient Cooling 12

Selection Procedure 14
- Cooling Capacity 14
- Heating Capacity 14
- Air Delivery 14

Model Number Description 16
- Cooling Condenser 16
- Air Handler 17

General Data 18

Performance Data 22

Controls 92
- ReliaTel 92
- Electromechanical 93

Electrical Data 94
- Cooling Condenser 94
- Air Handler (Standard) 95

Jobsite Connections 97
- Electromechanical Controls 97
- ReliaTel Controls 97

Dimensional Data 99
- Cooling Condenser 99
- Air Handler 108
- Accessories 114

Weights 120
- Cooling Condenser 120
- Air Handler 120

Mechanical Specifications 123
Condensing Units 123
Air Handlers 126

Features

Split System Overview

Unlike typical split systems on the market, Odyssey offers easy servicing, built-in reliability, ease of installation and outstanding customer service. And because today's owners are very cost-conscious when it comes to service and maintenance, the Odyssey Split System was designed with direct input from service contractors. This valuable information helped to design a product that would get the service person off the job quicker and save the owner money.

Flexible Applications

Odyssey offers outstanding standard features enhanced by a variety of factory and field installed options, multiple control options, rigorously tested proven designs and superior product and technical support. Because of this, Odyssey offers ultimate flexibility. Units are built to order in our standard "shortest in the industry" ship cycle time. Odyssey is available with single, dual and manifolded compressor options. Single compressor outdoor units feature a single refrigeration circuitry, lowering job installation costs by requiring only one set of refrigerant lines.

Equally important, Odyssey offers single refrigerant circuit/capacity unloading models. The unloading units feature dual manifolded scroll compressors with two stages of capacity modulation and a single refrigeration circuit. Dual compressor/dual circuit models give true stand-by protection - if one compressor fails, the second will automatically start-up. Also, the first compressor can be serviced without shutting down the unit since the refrigerant circuits are independent. Dual compressor models also save on energy costs. During light load conditions, only one compressor will operate to save energy.

Unmatched Product Support

One of our finest assets, Trane Sales Representatives are a support group that can assist you with:

- Product
- Application
- Service
- Training
- Special Applications
- Specifications
- Computer Programs and much more

Rigorous Testing

Our units are rigorously rain tested to ensure water integrity. Actual shipping tests are performed to determine packaging requirements. Units are test shipped around the country to determine the best packaging. Factory shake and drop tests are used as part of the package design process to help assure that the unit arrives at the job site in top condition. Rigging tests include lifting a unit into the air and letting it drop one foot, assuring that the lifting lugs and rails hold up under stress. A 100% coil leak test is performed at the factory. The condenser coils are leak tested at 660 psig and evaporators to 450 psig. All parts are inspected at the point of final assembly. Sub-standard parts are identified and rejected immediately. Every unit receives a 100% unit run test before leaving the production line to ensure it lives up to rigorous Trane requirements.

Standard and Optional Features

Figure 1. Compressors

Figure 2. Belt drive motor

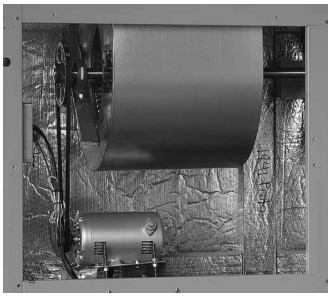
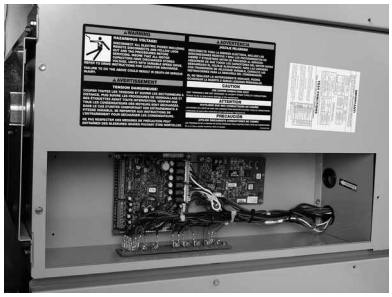


Figure 3. Easy access to terminal board



Airflow Distribution — Odyssey can replace an older machine with old ductwork and, in many cases, improve the comfort through better air distribution.

Anti-Short Cycle Timer — Provides a 3 minute minimum "ON" time and 3 minute "OFF" time for compressors to enhance compressor reliability by assuring proper oil return.

Belt Drive Motors — For additional static requirements, Odyssey Split Systems offer standard belt drive motors to meet and exceed a wide range of airflow needs.

Black Epoxy Pre-Coated Condenser Coils — The pre-coated coils are an economical option for protection in mildly corrosive environments. Available for Tube and Fin units only.

Colored And Numbered Wiring — Save time and money tracing wires and diagnosing the unit.

Compressors — Odyssey Split Systems contain the best compressor technology available to achieve the highest possible performance. Dual compressors perform very well under part load cooling conditions and system back- up applications. Dual compressors are available on 4.6-20.9 ton models and allow for efficient cooling utilizing 2-stages of compressor operation.

Complete Coat™ Microchannel Condenser Coil — This cathodic, epoxy-type electro-disposition coating is formulated for high edge builds and provides excellent resistance and durability in potentially corrosive environments due to alkalies, acids, alcohols, petroleum, seawater, salty air, etc. Available for Microchannel units only.

Convertible Units — The air handlers ship in a horizontal configuration. They can be easily converted to vertical by simply repositioning the drain pan. Units come complete with duct flanges so the contractor doesn't have to field fabricate them. These duct flanges are a time and cost saver.

Crankcase Heaters — These band heaters provide improved compressor reliability by warming the oil to prevent migration during off-cycles or low ambient conditions.

Dual Sloped Drain Pans— Every Odyssey unit has a non-corrosive, removable, double sloped drain pan that's easy to clean and reversible to allow installation of drain trap in two positions on either side of the unit.

Easy Access Low Voltage Terminal Board — Odyssey's Low Voltage Terminal Board is external to the line voltage electrical cabinet. It is extremely easy to locate and attach the thermostat wire and test operation of all unit functions. This is another cost and time saving installation feature.

Electric Heaters — Electric heat modules are available in a variety of voltages and capacities.

Foil Faced Insulation — All internal air handler surfaces have cleanable foil-faced insulation. All edges are either captured or sealed to ensure insulation fibers do not get into the airstream.

Hail/Vandal Guards — These coil guards shall be either factory or field installed for condenser coil protection. This feature protects the condenser coil from vandalism and/or hail damage. When ordered factory installed, it also adds additional shipping protection.

High/Low Static Motor — Available on many models, this high static motor accessory extends the capability of the standard unit.

High Pressure Control — All units include High Pressure Control as standard.

Low Ambient — Provides ability to cool space when outdoor ambient is below 50°F. Choice of fan on/off or modulating control.

Low Ambient Cooling — All Odyssey microprocessor units have cooling capabilities down to 0° F as standard. Electromechanical models have cooling capabilities to 50°F as built, or to 0°F by adding an optional low ambient kit.

Low Voltage Connections — The wiring of the low voltage connections to the unit and the zone sensors is as simple as 1-1, 2-2, and 3-3. This simplified system makes it easy for the installer to wire.

Phase Monitor/Reversal Protection — Phase monitor shall provide 100% protection for motors and compressors against problems caused by phase loss, phase imbalance, and phase reversal. Phase monitors are equipped with an LED that provides an ON or FAULT indicator.

Quick-Access Panels — Remove a few screws for access to the standardized internal components and wiring.

Single Point Power — A single electrical connection powers the unit.

Single Side Service — Single side service is standard on all units.

Standardized Components — Components are placed in the same location on all Odyssey units. Because of these standardized components throughout the Odyssey line, contractors/ owners can stock fewer parts.

Thermal Expansion Valve with Bypass Check Valves — This feature is standard on all indoor units.

Unit Cabinet — The compact cabinet takes up less room and is less costly to ship. It's cabinet design also ensures water integrity.

Table 1. Odyssey features – standard and optional

		Options[a]	
	Standard Features	Factory Installed	Field Installed
1-year Limited Parts Warranty	X		
5-year Limited Compressor Warranty	X		
Anti-Short Cycle Timer	X		
Belt Drive Motors	X		
Black Epoxy Pre-Coated Coils		X	
Colored and Numbered Wiring	X		
Complete Coat™ Microchannel Condenser Coil		X	
Compressor Discharge Temperature Limit (DTL)	X		
Convertible Airflow	X		
Crankcase Heaters	X		
Easy Access Low Voltage Terminal Board (LTB)	X		
Electric Heaters			X
Filters	X		
Foil-Faced and Edge Captured Insulation	X		
Hail/Vandal Guards		X	X
High Pressure Control	X		
High Static Motor Kit[b]			X
Hot Gas Bypass			X
IAQ Dual Sloped and Removable Drain Pans	X		
Liquid Line Refrigerant Drier	X		
Low Ambient Cooling			X
Low Ambient Cooling to 50°F on Electromechanical Models	X		
Low Pressure Control	X		
Low Static Motor Kit[b]			X

Table 1. Odyssey features – standard and optional (continued)

	Standard Features	Options[a]	
		Factory Installed	Field Installed
Low Voltage Circuit Protection	X		
Phase Loss/Reversal Monitor	X		
Quick Access Panels	X		
Scroll Compressors	X		
Single Point Power	X		
Single Side Service	X		
Standardized Components	X		
Thermal Expansion Valve	X		
Vibration Isolators			X

(a) Refer to model number description for option availability or contact Product Support.
(b) Available on standard units only. See Accessories chapter for more information.

Standard and Optional Controls

ReliaTel™

Figure 4. ReliaTel board

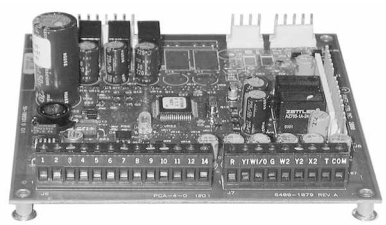
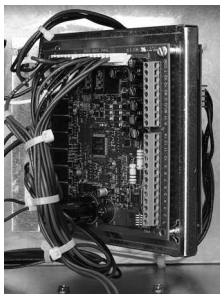


Figure 5. ReliaTel module



ReliaTel controls provide unit control for heating, cooling, and ventilating, utilizing input from sensors that measure outdoor and indoor temperature. ReliaTel also provides outputs for building automation systems and expanded diagnostics. Quality and reliability are enhanced through ReliaTel control and logic:

- Prevents the unit from short cycling, considerably improving compressor life.
- Ensures the compressor will run for a specific amount of time which allows oil to return for better lubrication, enhancing the reliability of the compressor.
- Reduces the number of components required to operate the unit, reducing possibilities for component failure.

ReliaTel Makes Installing and Servicing Easy

ReliaTel eliminates the need for field-installed, anti-short cycle timer and time delay relays. The wiring of the low voltage connections to the unit and the zone sensors is as easy as 1-1, 2-2, and 3-3. This simplified system makes wiring easier for the installer.

ReliaTel Makes Testing Easy

ReliaTel requires no special tools to run the unit through its paces. Simply place a jumper between Test 1 and Test 2 terminals on the Low Voltage Terminal Board and the unit will walk through its operational steps automatically. The unit automatically returns control to the zone sensor after stepping through the test mode a single time, even if the jumper is left on the unit. As long as the unit has power and the “system on” LED is lit, ReliaTel is operational. The light indicates that the controls are functioning properly. ReliaTel features expanded diagnostic capabilities when utilized with Trane Integrated Comfort™ Systems. Some zone sensor options

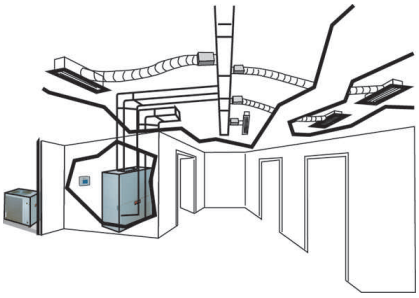
have central control panel lights which indicate the mode the unit is in and possible diagnostic information (dirty filters for example).

ReliaTel Has Other Benefits

- The ReliaTel built-in anti-shortcycle timer, time delay relay and minimum “on” time control functions are factory tested to assure proper operation.
- ReliaTel softens electrical “spikes” by staging on fans, compressors and heaters.
- Intelligent Fallback is a benefit to the building occupant. If a component goes astray, the unit will continue to operate at predetermined temperature setpoint.
- Intelligent Anticipation is a standard feature. It functions continuously as ReliaTel and zone sensor(s) work together in harmony to provide much tighter comfort control than conventional electromechanical thermostats.
- The ReliaTel design is standardized across the board, ensuring a lower cost to owners.

Additional Controls

VariTrac® Building Automation System — When Trane’s changeover VAV System for light commercial applications is coupled with the unit, it provides the latest in technological advances for comfort management systems and can allow thermostat control in every zone served by VariTrac.



Trane Communication Interface (TCI) — This module, when applied with ReliaTel, easily interfaces with the Trane Integrated Comfort System™.

Frostat™ — This control utilizes a capillary bulb embedded in the face of the evaporator coil which monitors coil temperature to inhibit evaporator icing and protect the compressor. Recommended for applications with low leaving air temperatures, low airflow and/or high latent load applications.

LonTalk® Communications Interface — The LonTalk communications interface allows the unit to communicate as a Tracer™ LCI-V device or directly with generic LonTalk Network Building Automation System Controls.

BACnet® Communication Interface (BCI) — The BACnet Communication Interface allows the unit to communicate directly with a generic open protocol BACnet MS/TP Network Building Automation Control System.

Electromechanical — For the simpler job that does not require a building automation system, or expanded diagnostics capabilities, Odyssey offers electromechanical controls. This 24-volt control includes the control transformer and contactor pressure lugs for power wiring.

Zone Sensors/Thermostats— Available in wireless, programmable, automatic and manual styles.

Table 2. Odyssey control options – standard and optional

	Standard Features	Options[a]	
		Factory Installed	Field Installed
BACnet Communication Interface (BCI)			X
Froststat - Evaporator Defrost Control (EDC)	X		
LonTalk Communications Interface (LCI)		X	X

Table 2. Odyssey control options – standard and optional (continued)

	Standard Features	Options[a]	
		Factory Installed	Field Installed
ReliaTel Microprocessor Controls	X	X	
Electromechanical Controls		X	
Thermostat			X
Trane Communications Interface (TCI)			X
Wireless Zone Sensor			X
Zone Sensor			X

[a] Refer to model number description for option availability or contact Product Support.

Application Considerations

Application of this product should be within the cataloged airflow and performance considerations.

Clearance Requirements

The recommended clearances identified with unit dimensions should be maintained to assure adequate serviceability, maximum capacity and peak operating efficiency. Actual clearances which appear inadequate should be reviewed with the local representative.

180° Blower Rotation

The 5, 7.5, and 10 ton standard air handler blower section can be rotated 180° to change the discharge pattern. This modification must be done in the field and requires an additional kit. See unit installation guide.

Low Ambient Cooling

As manufactured, electromechanical units can operate to 50°F in the cooling mode of operation. An accessory head pressure control will allow operation to 0°F outdoor ambient. When using these units with control systems such as bypass changeover Variable Air Volume, make sure to consider the requirement for a head pressure control to allow low ambient cooling.

Figure 6. Typical split system application

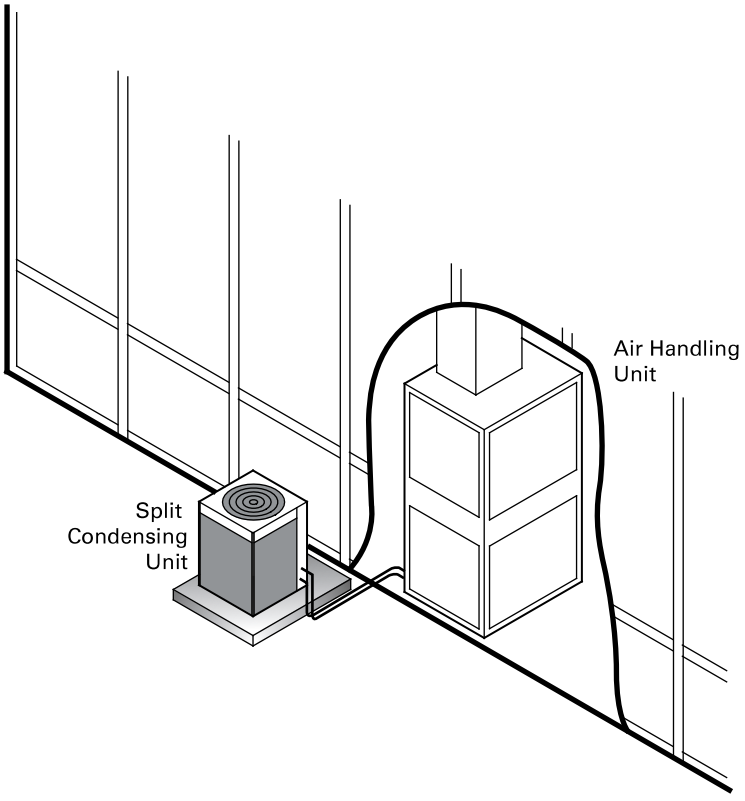


Figure 7. Typical horizontal air handler application

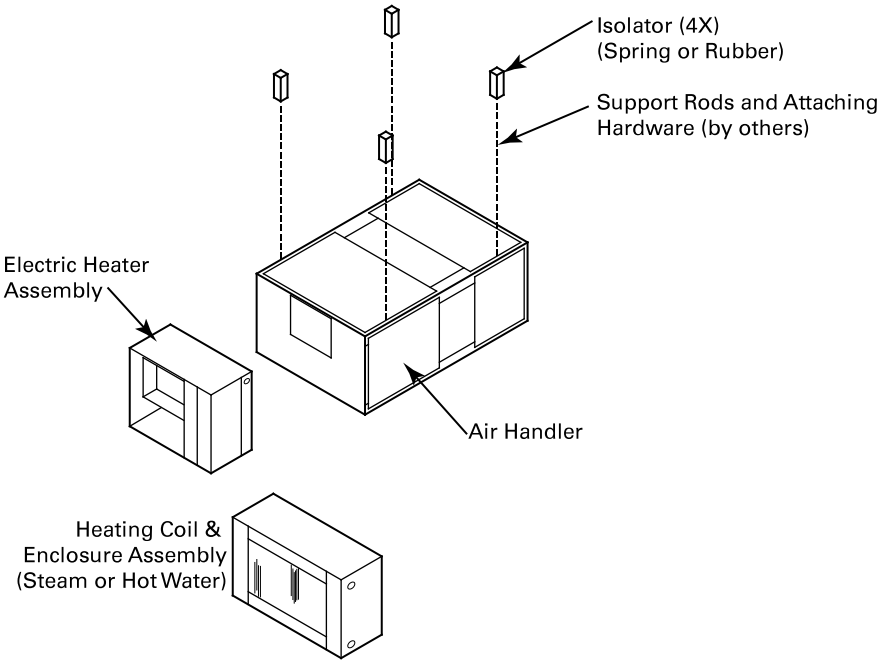
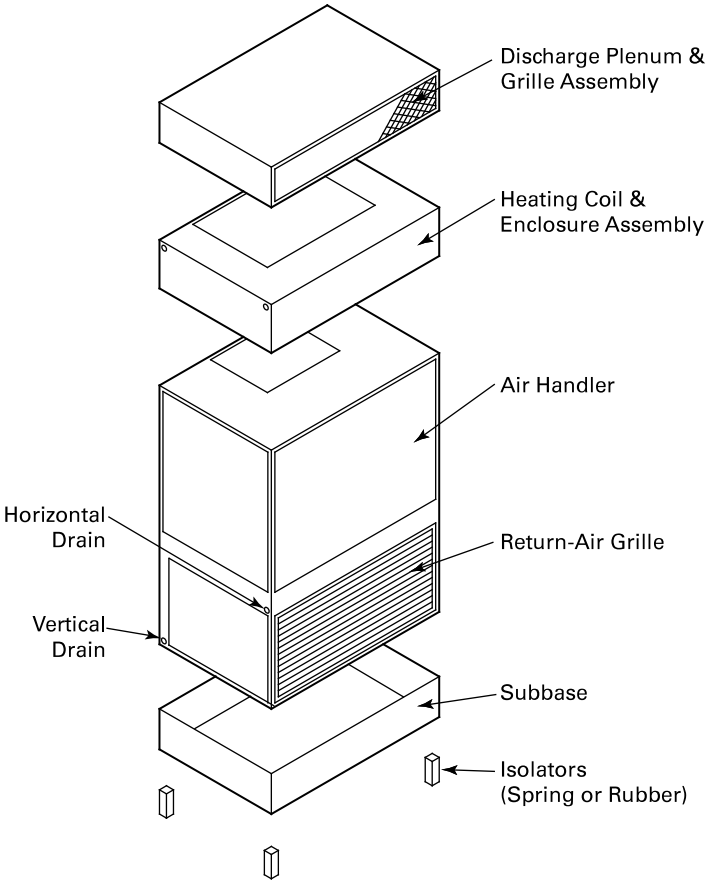


Figure 8. Typical vertical air handler application



Selection Procedure

Cooling Capacity

1. Calculate the building's total and sensible cooling loads at design conditions, using standardized calculation methods.
2. Size the equipment using the gross cooling capacity tables that begin with Table 9, p. 24. Match the cooling loads at design conditions. For example, if the following specifies the building cooling requirements:

   Electrical Characteristics: 415/50/3
   Summer Design Conditions: Entering Evap Coil—80°F DB/67°F WB (27°C DB/19°C WB), Outdoor Ambient—95°F (35°C)
   Total Cooling Load: 75 MBh (22 kW)
   Sensible Cooling Load: 53 MBh (15.5 kW)
   Airflow: 2500 cfm (4248 m^3/h)
   External Static Pressure: 0.77 inches of water gauge (192 Pa)
3. Use Table 9, p. 24 to determine that TTA076D with TWE076D has a gross cooling capacity of 81.9 MBh (24 kW) and 62.8 MBh (18.4 kW) sensible capacity at 95°F DB (35°C) ambient and 2500 cfm (4248 m^3/h) with 80°F DB/67° F WB (27°C DB/19°C WB) air entering the evaporator.
4. To find the net cooling capacities, fan motor heat must be subtracted. Determine the total unit static pressure:

   External Static Duct System: .84 in. (210 Pa)
   Standard Filter: 0.10 in. (25 Pa)
   Supplementary Electric Heat: .16 in. (57 Pa)
   Total Static Pressure: 1.10 in. (274 Pa)

   Notes:

   - *The Evaporator Fan Performance Table has included the effect of a 1 in. (249 Pa) filter already. Therefore, the actual Total Static Pressure is 1.10 - 0.10 = 1.00 in. (274 - 25 = 249 Pa) With 2500 cfm (4248 m^3/h) and 1.00 inches (249 Pa), Table 8, p. 23 shows 1.51 Bhp (ultra high static drive kit required).*
   - *This formula can be used to calculate Fan Motor Heat:*

     3.15 X Bhp = MBh
     3.15 X 1.51 = 4.75 MBh
     Net Total Cooling Capacity = 81.9 MBh - 4.75 MBh = 77.15 MBh (22.6 kW)
     Net Sensible Cooling Capacity = 62.8 MBh - 4.75 MBh = 58.05 MBh (17.0 kW)

Heating Capacity

1. Calculate the building heating load using the Trane calculation form or any other standard accepted method.
2. Size the equipment using Table 95, p. 91 to match the heating loads at design conditions. For example, if the following specifies the building heating requirements:

   Total Heating Load: 97.0 MBh (28.4 kW)
   Airflow: 2500 cfm (4248 m^3/h)
   Supplementary Electric Heaters
3. Use Table 95, p. 91 to determine that the 34.88 kW heater has a capacity of 119,045 Btuh.
4. From Table 100, p. 96, the 34.88 kW heater at 460V indicates the heater model is BAYHTRL435A.

Air Delivery

1. The external static pressure drop through the air distribution system is .84 inches of water gauge, use Table 94, p. 91 to determine that the static pressure drop through the electric heater is 0.16 inches of water (.84 + .16 = 1.00 in.).

2. Enter Table 77, p. 75 for TWE076D at 2500 cfm (4248 m3/h) and 1.00 (249 Pa) static pressure. The high static motor at 987 RPM gives the desired airflow.

Model Number Description

Cooling Condenser

TTA	201	F	D	00	*	*
123	456	7	8	910	11	12

Note: *When ordering replacement parts or requesting service, be sure to refer to the specific model number, serial number, and DL number (if applicable) stamped on the unit nameplate.*

DIGITS 1 - 3: Product Type

TTA = Split System Cooling

DIGITS 4 - 6: Nominal Gross Cooling Capacity (MBh)

061 = 5 Tons (50Hz)
076 = 6.25 Tons (50Hz)
101 = 8.33 Tons (50Hz)
126 = 10.4 Tons (50Hz)
156 = 13.0 Tons (50Hz)
201 = 16.7 Tons (50Hz)
251 = 20.9 Tons (50Hz)

DIGIT 7: Major Development Sequence

E = Dual Compressor, Dual Circuit, Tube and Fin
F = Dual Compressor, Single Circuit (Manifold Scroll Compressors), Tube and Fin
G = Single Compressor, Single Circuit, Microchannel
H = Dual Compressor, Dual Circuit, Microchannel

DIGIT 8: Electrical Characteristics

D = 380-415/50/3

DIGITS 9 - 10: Factory Installed Options

00 = Packed Stock
0S = Coated Coil
0R = ReliaTel, no LCI Board
0T = ReliaTel, no LCI Board with Coated Coil
0U = ReliaTel, with LCI Board
0W = ReliaTel, with LCI Board and Coated Coil
H0 = Hail Guard with Packed Stock
HS = Hail Guard with Coated Coil
HR = Hail Guard with ReliaTel, no LCI Board
HT = Hail Guard with ReliaTel, no LCI Board with Coated Coil
HU = Hail Guard with ReliaTel, with LCI Board
HW = Hail Guard with ReliaTel, with LCI Board and Coated Coil

DIGITS 11: Minor Design Sequence

* = Current Design Sequence[1]

DIGITS 12: Service Digit

* = Current Design Sequence[1]

1. * = *sequential alpha character*

Air Handler

TWE	201	E	D	00	*	*
1 2 3	4 5 6	7	8	9 10	11	12

Note: *When ordering replacement parts or requesting service, be sure to refer to the specific model number, serial number, and DL number (if applicable) stamped on the unit nameplate.*

DIGITS 1 - 3: Product Type

TWE = Split System Heat Pump/Cooling Air Handler

DIGITS 4 - 6: Nominal Gross Cooling Capacity (MBh)

051 = 4.6 Tons (50 Hz)
076 = 6.25 Tons (50 Hz)
101 = 8.33 Tons (50 Hz)
126 = 10.4 Tons (50 Hz)
156 = 13.0 Tons (50 Hz)
201 = 16.7 Tons (50 Hz)
251 = 20.9 Tons (50 Hz)

DIGIT 7: Major Development Sequence

D = Single Refrigeration Circuit
E = Dual Refrigeration Circuit

DIGIT 8: Electrical Characteristics

D = 380-415/50/3

DIGITS 9 - 10: Factory Installed Options

00 = Packed Stock (Standard)

DIGITS 11: Minor Design Sequence

* = Current Design Sequence[2]

DIGITS 12: Service Digit

* = Current Design Sequence[2]

2. * = *sequential alpha character*

Table 3. General data for 5 - 8.33 ton (TTA061G-TTA101F) condensing units, 50 Hz

	5 Tons	6.25 Tons	6.25 Tons	8.33 Tons	8.33 Tons	8.33 Tons
	Single Compressor TTA061G	Single Compressor TTA076G	Dual Compressor TTA076H	Single Compressor TTA101G	Dual Compressor TTA101H	Manifolded Compressor TTA101F
Cooling Performance - Gross Cooling Capacity, Btu (kW)						
Matched Air Handler	69,000 (20.21)	83,000 (24.31)	83,000 (24.31)	108,000 (31.63)	104,000 (30.45)	104,000 (30.45)
Condensing Unit Only	61,000 (17.86)	75,000 (21.96)	75,000 (21.96)	94,000 (27.52)	91,000 (26.64)	96,000 (28.11)
ARI Net Cooling Capacity	68,000 (19.92)	81,000 (23.72)	81,000 (23.72)	105,000 (30.75)	101,000 (29.57)	102,000 (29.87)
Efficiency						
Matched Air Handler	11.20	11.20	11.20	11.20	11.20	12.70
Condensing Unit Only	13.30	12.90	12.90	13.10	12.70	13.30
System Power/Condensing Unit Power (kW)	6.07/4.59	7.23/5.81	7.23/5.81	9.38/7.18	9.02/7.17	8.03/7.22
Compressor						
Type	Scroll	Scroll	Scroll	Scroll	Scroll	Manifolded Scrolls
No.	1	1	2	1	2	2
System Data						
No. Refrigerant Circuits	1	1	2	1	2	1
Suction Line (mm) OD	1 1/8 (28.58)	1 3/8 (34.90)	1 1/8 (28.58)	1 3/8 (34.90)	1 1/8 (28.58)	1 3/8 (34.90)
Liquid Line (mm) OD	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)
Outdoor Coil						
Type	MCHE	MCHE	MCHE	MCHE	MCHE	Lanced
Tube Size OD/Coil Width MCHE (in.)	0.811 (20.6)	0.811 (20.6)	0.811 (20.6)	0.811 (20.6)	0.811 (20.6)	3/8 (9.50)
Face Area, sq ft (m^2)	18.5 (1.72)	18.5 (1.72)	17.4 (1.62)	23.8 (2.21)	22.7 (2.11)	24.0 (2.23)
Rows/FPI (Fins per inch)	1/23	1/23	1/23	1/23	1/23	2/18
Outdoor Fan						
Type	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
No. Used	1	1	1	1	1	1
No. Used/Diameter - in. (mm)	26 (660.40)	26 (660.40)	26 (660.40)	28 (711.20)	28 (711.20)	28 (711.20)
Drive Type	Direct	Direct	Direct	Direct	Direct	Direct
No. Speeds	1	1	1	1	1	1
CFM (m^3/h)	5525 (9387)	5525 (9387)	5525 (9387)	8090 (13745)	8090 (13745)	8090 (13745)
No. Motor	1	1	1	1	1	1
Motor HP (kW)	0.33 (0.25)	0.33 (0.25)	0.33 (0.25)	0.75 (0.56)	0.75 (0.56)	0.75 (0.56)
Motor RPM	925	925	925	925	925	925
Refrigerant Charge (Field Supplied)						
lbs (kg) of R-410A	10 (4.54)	9.7 (4.40)	14.6 (6.62)	13.6 (6.17)	15.3 (6.94)	21.2 (9.62)
Shipping Dimensions						
HxWxD - in. (mm)	43.5" x 43" x 36.5" (1105.9 x 1092.2 x 927.1)	43.5" x 43" x 36.5" (1106 x 1092.2 x 927.1)	43.5" x 43" x 36.5" (1106 x 1092.2 x 927.1)	43.5" x 53" x 40.5" (1104.6 x 1346.2 x 1028.7)	43.5" x 53" x 40.5" (1104.6 x 1346.2 x 1028.7)	43.5" x 53" x 40.5" (1104.6 x 1346.2 x 1028.7)

Table 4. General data for 10.4 - 20.9 ton (TTA126E-TTA251F) condensing units, 50 Hz

	10.4 Tons	13 Tons	13 Tons	16.7 Tons	16.7 Tons	20.9 Tons
	Dual Compressor TTA126E	Dual Compressor TTA156E	Manifolded Compressor TTA156F	Dual Compressor TTA201E	Manifolded Compressor TTA201F	Manifolded Compressor TTA251F
Cooling Performance - Gross Cooling Capacity, Btu (kW)						
Matched Air Handler	131,000 (38.36)	161,000 (47.14)	160,000 (46.85)	227,000 (66.47)	222,000 (65.00)	260,000 (76.13)
Condensing Unit Only	119,000 (34.84)	150,000 (43.92)	153,000 (44.80)	225,000 (65.88)	223,000 (65.30)	250,000 (73.20)
ARI Net Cooling Capacity	129,000 (37.77)	158,000 (46.26)	156,000 (45.68)	222,000 (65.00)	217,000 (63.54)	250,000 (73.20)
Efficiency						
Matched Air Handler	12.10	12.80	12.50	11.40	11.30	11.30
Condensing Unit Only	12.30	13.40	13.70	12.70	12.60	13.10
System Power/Condensing Unit Power (kW)	10.66/9.68	12.34/11.19	12.48/11.17	19.48/17.72	19.21/17.71	22.10/19.00
Compressor						
Type	Scroll	Scroll	Manifolded Scrolls	Scroll	Manifolded Scrolls	Manifolded Scrolls
No.	2	2	2	2	2	2
System Data						
No. Refrigerant Circuits	2	2	1	2	1	1
Suction Line (mm) OD	1 1/8 (28.58)	1 3/8 (34.90)	1 5/8 (41.28)	1 3/8 (34.90)	1 5/8 (41.28)	2 1/8 (53.98)
Liquid Line (mm) OD	1/2 (12.70)	1/2 (12.70)	5/8 (15.88)	1/2 (12.70)	5/8 (15.88)	5/8 (15.88)
Outdoor Coil						
Type	Lanced	Lanced	Lanced	Lanced	Lanced	Lanced
Tube Size (mm) OD	3/8 (9.50)	3/8 (9.50)	3/8 (9.50)	3/8 (9.50)	3/8 (9.50)	3/8 (9.50)
Face Area, sq ft (m^2)	30.6 (2.84)	52.6 (4.89)	52.6 (4.89)	52.6 (4.89)	52.6 (4.89)	57.05 (5.30)
Rows/FPI (Fins per inch)	2/18	2/18	2/18	2/18	2/18	3/18
Outdoor Fan						
Type	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
No. Used	1	2	2	2	2	2
No. Used/Diameter - in. (mm)	28 (711.20)	28 (711.20)	28 (711.20)	28 (711.20)	28 (711.20)	28 (711.20)
Drive Type	Direct	Direct	Direct	Direct	Direct	Direct
No. Speeds	1	1	1	1	1	1
CFM (m^3/h)	8281 (14070)	16354 (27786)	16354 (27786)	16354 (27786)	16354 (27786)	16354 (27786)
No. Motor	1	2	2	2	2	2
Motor HP (kW)	0.75 (0.56)	0.75 (0.56)	0.75 (0.56)	0.75 (0.56)	0.75 (0.56)	0.75 (0.56)
Motor RPM	925	925	925	925	925	925
Refrigerant Charge (Field Supplied)						
lbs (kg) of R-410A	30.7 (13.93)	39 (17.69)	37.6 (17.06)	43.8 (19.87)	41.3 (18.73)	62.5 (28.35)
Shipping Dimensions						
HxWxD - in. (mm)	49.5" x 53.3" x 41" (1256.8 x 1352.5 x 1041.4)	49.5" x 94.8" x 47" (1256.8 x 2406.6 x 1193.8)	49.5" x 94.8" x 47" (1256.8 x 2406.6 x 1193.8)	49.5" x 94.8" x 47" (1256.8 x 2406.6 x 1193.8)	49.5" x 94.8" x 47" (1256.8 x 2406.6 x 1193.8)	55.5" x 94.8" x 47" (1409.2 x 2406.6 x 1193.8)

Table 5. General data for 4.6 - 8.33 ton air handler, 50 Hz

	4.6 Tons Single Circuit TWE051D	6.25 Tons Single Circuit TWE076D	6.25 Tons Dual Circuit TWE076E	8.33 Tons Single Circuit TWE101D	8.33 Tons Dual Circuit TWE101E
System Data					
No. Refrigerant Circuits	1	1	2	1	2
Suction Line Connection, in. (mm) OD	1 1/8 (28.58)	1 3/8 (34.90)	1 1/8 (25.60)	1 3/8 (34.90)	1 1/8 (25.60)
Liquid Line Connection, in. (mm) OD	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)
Indoor Coil					
Type	Lanced	Lanced	Lanced	Lanced	Lanced
Tube Size, in. (mm)	3/8 (9.50)	3/8 (9.50)	3/8 (9.50)	3/8 (9.50)	3/8 (9.50)
Face Area, sq. ft. (m^2)	5.0 (0.46)	8.1 (0.75)	8.1 (0.75)	11.2 (1.04)	11.2 (1.04)
Rows/FPI	4/14	4/14	4/14	4/14	4/14
Refrigerant Control	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve
Drain Connection Size, in. (mm)	1.0 (25.40) PVC	1.0 (25.40) PVC	1.0 (25.40) PVC	1.0 (25.40) PVC	1.0 (25.40) PVC
Indoor Fan					
Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
No. Used/Diameter x Width, in. (mm)	1/12 x 12 (304.8 x 304.8)	1/15 x 15 (381.0 x 381.0)	1/15 x 15 (381.0 x 381.0)	1/15 x 15 (381.0 x 381.0)	1/15 x 15 (381.0 x 381.0)
Drive Type/No. Speeds	Belt/Adjustable	Belt/Adjustable	Belt/Adjustable	Belt/Adjustable	Belt/Adjustable
CFM (m^3/h)	2000 (3398)	2500 (4248)	2500 (4248)	3350 (5692)	3350 (5692)
No. Motors	1	1	1	1	1
Motor HP - Standard/Oversized (kw)	0.75/1.0 (0.56/0.75)	1.5/2.0/3.0 (1.10/1.50/2.2.)	1.5/2.0/3.0 (1.10/1.50/2.2.)	2.0 (1.50)	2.0/3.0 (1.50/2.20)
Motor RPM	1725	1725	1725	1725	1725
Motor Frame Size	56	56H	56H	56HZ	56HZ
Filters					
Type/Furnished	Throwaway/Yes	Throwaway/Yes	Throwaway/Yes	Throwaway/Yes	Throwaway/Yes
(No.)/Size Recommended	(1) 16 x 20 x 1; (1) 20 x 20 x 1	(3) 16 X 25 X 1	(3) 16 X 25 X 1	(4) 16 X 25 X 1	(4) 16 X 25 X 1
Shipping Dimensions					
HxWxD - in. (mm)	52.5" x 25.5" x 41.5" (1334.3 x 647.7 x 1054.1)	58.6" x 28.5" x 51" (1488.4 x 723.9 x 1295.4)	58.6" x 28.5" x 51" (1488.4 x 723.9 x 1295.4)	58.6" x 28.5" x 67" (1487.2 x 723.9 x 1701.8)	58.6" x 28.5" x 67" (1487.2 x 723.9 x 1701.8)

Table 6. General data for 10.4 - 20.9 ton air handler, 50 Hz

	10.4 Tons	13 Tons	16.7 Tons	20.9
	Dual Circuit TWE126E	Dual Circuit TWE156E	Dual Circuit TWE201E	Dual Circuit TWE251F
System Data				
No. Refrigerant Circuits	2	2	2	2
Suction Line Connection, in. (mm) OD	1 3/8 (34.90)	1 3/8 (34.90)	1 3/8 (34.90)	2 1/8 (53.98)
Liquid Line Connection, in. (mm) OD	1/2 (12.70)	1/2 (12.70)	5/8 (15.88)	5/8 (15.88)
Indoor Coil				
Type	Lanced	Lanced	Lanced	Lanced
Tube Size, in. (mm)	3/8 (9.50)	3/8 (9.50)	3/8 (9.50)	3/8 (9.50)
Face Area, sq. ft. (m^2)	16.3 (1.51)	16.3 (1.51)	21.7 (2.01)	21.7 (2.01)
Rows/FPI	4/14	4/14	3/14	4/14
Refrigerant Control	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve
Drain Connection Size, in. (mm)	1.0 (25.40) PVC	1.0 (25.40) PVC	1.0 (25.40) PVC	1.0 (25.40) PVC
Indoor Fan				
Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
No. Used/Diameter x Width, in. (mm)	2/15 x 15 (381.0 x 381.0)	2/15 x 15 (381.0 x 381.0)	2/15 x 15 (381.0 x 381.0)	2/15 x 15 (381.0 x 381.0)
Drive Type/No. Speeds	Belt/Adjustable	Belt/Adjustable	Belt/Adjustable	Belt/Adjustable
CFM (m^3/h)	4200 (7136)	5000 (8495)	6675 (11341)	8350 (14186)
No. Motors	1	1	1	1
Motor HP - Standard/Oversized (kw)	2.0/3.0/5.0 (1.50/2.20/3.70)	3.0/5.0 (2.20/3.70)	3.0/5.0/7.5 (2.20/ 3.70/5.60)	5.0 (3.70)
Motor RPM	1755	1728/1750	1750/3470	2930
Motor Frame Size	145T	56HZ	184T	184T
Filters				
Type/Furnished	Throwaway/Yes	Throwaway/Yes	Throwaway/Yes	Throwaway/Yes
(No.)/Size Recommended	(8) 15 X 20 X 2	(8) 15 X 20 X 2	(4) 16 X 25 X 2; (4) 16 X 20 X 2	(4) 16 X 25 X 2; (4) 16 X 20 X 2
Shipping Dimensions				
HxWxD - in. (mm)	73.7" x 31.3" x 83" (1872 x 793.8 x 2108.2)	73.7" x 31.3" x 83" (1872 x 793.8 x 2108.2)	76.5" x 33.8" x 95" (1943.9 x 857.3 x 2413)	76.5" x 33.8" x 95" (1943.9 x 857.3 x 2413)

Performance Data

Table 7. Gross cooling capacities (MBH) TTA061G condensing unit with TWE076D air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
1800	75	64.6	54.6	70.8	41.9	77.2	28.4	62.0	53.4	67.7	40.7	74.1	27.3	58.8	51.9	64.9	39.5	70.8	26.1
	80	65.2	54.2	71.0	52.2	76.9	38.7	63.0	63.0	68.0	50.9	73.9	37.6	60.6	60.6	65.0	49.6	70.5	36.5
	85	68.6	68.6	71.5	62.1	76.8	49.1	66.3	66.3	68.3	60.8	73.6	48.0	63.8	63.8	65.4	59.6	70.4	46.8
	90	71.9	71.9	72.4	70.2	76.5	59.2	69.4	69.4	69.4	69.4	73.4	58.1	66.9	66.9	66.9	66.9	70.1	56.8
2000	75	65.8	57.9	71.9	43.8	78.1	28.8	62.6	56.4	68.9	42.6	74.9	27.7	59.7	55.1	65.8	41.4	71.5	26.6
	80	67.4	67.4	72.1	55.1	77.8	40.3	65.1	65.1	69.0	53.9	74.7	39.2	62.6	62.6	66.0	52.5	71.3	38.1
	85	70.9	70.9	72.6	66.1	77.7	51.9	68.4	68.4	69.2	64.9	74.5	50.7	65.8	65.8	66.6	63.6	71.1	49.4
	90	74.1	74.1	74.1	74.1	77.3	62.9	71.5	71.5	71.5	71.5	74.1	61.8	68.8	68.8	68.8	68.8	70.8	60.5
2200	75	66.9	61.1	72.7	45.7	78.8	29.3	64.2	59.8	69.7	44.5	75.6	28.2	61.3	58.5	66.5	43.2	72.0	27.0
	80	69.3	69.3	72.8	58.0	78.5	41.9	66.8	66.8	69.8	56.7	75.3	40.8	64.2	64.2	66.7	55.3	71.9	39.7
	85	72.7	72.7	73.5	70.1	78.4	54.5	70.2	70.2	70.6	68.9	75.2	53.3	67.4	67.4	67.6	67.6	71.6	52.0
	90	75.9	75.9	75.9	75.9	77.9	66.7	73.3	73.3	73.3	73.3	74.7	65.5	70.4	70.4	70.4	70.4	71.3	64.3
2400	75	67.9	64.3	73.4	47.6	79.4	29.7	65.1	63.1	70.3	46.2	76.2	28.6	62.3	61.7	67.1	44.9	72.7	27.5
	80	70.9	70.9	73.6	60.9	79.1	43.5	68.3	68.3	70.6	59.6	75.9	42.4	65.6	65.6	68.1	58.2	72.4	41.4
	85	74.3	74.3	75.1	73.9	79.0	57.0	71.7	71.7	72.1	69.8	75.8	55.9	68.8	68.8	68.8	68.8	72.1	54.6
	90	77.5	77.5	77.5	77.5	79.2	69.6	74.7	74.7	74.7	74.7	75.2	69.2	71.7	71.7	71.7	71.7	71.8	68.0

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
1800	75	56.3	50.7	61.7	38.2	67.2	24.9	53.3	49.3	58.2	36.8	63.4	23.5
	80	58.1	58.1	61.9	48.2	66.9	35.3	55.4	55.4	58.4	46.8	63.1	33.9
	85	61.1	61.1	62.3	58.2	66.9	45.6	58.3	58.3	59.0	56.8	63.1	44.1
	90	64.1	64.1	64.1	64.1	66.6	55.5	61.0	61.0	61.0	61.0	62.7	54.1
2000	75	57.4	53.9	62.5	40.1	67.9	25.3	54.3	52.5	58.9	38.6	63.8	24.0
	80	59.9	59.9	62.8	51.1	67.8	36.9	57.0	57.0	59.3	49.6	63.7	35.6
	85	63.0	63.0	64.4	62.0	67.6	48.1	59.9	59.9	59.9	59.9	63.6	46.7
	90	65.9	65.9	65.9	65.9	67.2	59.2	62.6	62.6	62.6	62.6	63.3	57.8
2200	75	58.3	57.1	63.1	41.8	68.5	25.8	55.3	55.3	59.5	40.3	64.2	24.4
	80	61.4	61.4	63.7	53.9	68.3	38.5	58.3	58.3	59.9	52.5	64.2	37.2
	85	64.5	64.5	64.5	64.5	68.2	50.7	61.3	61.3	61.3	61.3	64.3	49.3
	90	67.3	67.3	67.3	67.3	67.7	63.0	63.9	63.9	63.9	63.9	64.5	61.5
2400	75	59.4	59.4	63.6	43.5	69.0	26.2	56.4	56.4	60.0	42.0	64.9	24.9
	80	62.7	62.7	64.3	56.8	68.8	40.1	59.5	59.5	60.5	55.3	64.6	38.8
	85	65.8	65.8	65.8	65.8	68.7	53.3	62.4	62.4	62.4	62.4	64.7	51.8
	90	68.5	68.5	68.5	68.5	68.1	66.7	65.0	65.0	65.0	65.0	65.7	65.7

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 8. Gross cooling capacities (kW) TTA061G condensing unit with TWE076D air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
3058	24	18.9	16.0	20.8	12.3	22.6	8.3	18.2	15.6	19.9	11.9	21.7	8.0	17.2	15.2	19.0	11.6	20.7	7.6
	27	19.1	15.9	20.8	15.3	22.5	11.4	18.5	18.5	19.9	14.9	21.6	11.0	17.8	17.8	19.1	14.5	20.7	10.7
	30	20.1	20.1	21.0	18.2	22.5	14.4	19.4	19.4	20.0	17.8	21.6	14.1	18.7	18.7	19.2	17.5	20.6	13.7
	33	21.1	21.1	21.2	20.6	22.4	17.4	20.4	20.4	20.3	20.3	21.5	17.0	19.6	19.6	19.6	19.6	20.5	16.7
3398	24	19.3	17.0	21.1	12.8	22.9	8.4	18.3	16.5	20.2	12.5	22.0	8.1	17.5	16.1	19.3	12.1	21.0	7.8
	27	19.8	19.8	21.1	16.1	22.8	11.8	19.1	19.1	20.2	15.8	21.9	11.5	18.3	18.3	19.3	15.4	20.9	11.2
	30	20.8	20.8	21.3	19.4	22.8	15.2	20.0	20.0	20.3	19.0	21.8	14.9	19.3	19.3	19.5	18.6	20.8	14.5
	33	21.7	21.7	21.7	21.7	22.6	18.4	21.0	21.0	21.0	21.0	21.7	18.1	20.2	20.2	20.2	20.2	20.7	17.7
3738	24	19.6	17.9	21.3	13.4	23.1	8.6	18.8	17.5	20.4	13.0	22.2	8.3	18.0	17.1	19.5	12.7	21.1	7.9
	27	20.3	20.3	21.3	17.0	23.0	12.3	19.6	19.6	20.5	16.6	22.1	12.0	18.8	18.8	19.5	16.2	21.1	11.6
	30	21.3	21.3	21.5	20.5	23.0	16.0	20.6	20.6	20.7	20.2	22.0	15.6	19.8	19.8	19.8	19.8	21.0	15.2
	33	22.3	22.3	22.3	22.2	22.8	19.5	21.5	21.5	21.5	21.5	21.9	19.2	20.6	20.6	20.6	20.6	20.9	18.8
4078	24	19.9	18.9	21.5	13.9	23.3	8.7	19.1	18.5	20.6	13.6	22.3	8.4	18.3	18.1	19.7	13.2	21.3	8.0
	27	20.8	20.8	21.6	17.8	23.2	12.8	20.0	20.0	20.7	17.5	22.2	12.4	19.2	19.2	20.0	17.0	21.2	12.1
	30	21.8	21.8	22.0	21.7	23.2	16.7	21.0	21.0	21.1	20.5	22.2	16.4	20.2	20.2	20.2	20.2	21.1	16.0
	33	22.7	22.7	22.7	22.7	23.2	20.4	21.9	21.9	21.9	21.9	22.0	20.3	21.0	21.0	21.0	21.0	21.0	19.9

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
3058	24	16.5	14.9	18.1	11.2	19.7	7.3	15.6	14.4	17.1	10.8	18.6	6.9
	27	17.0	17.0	18.1	14.1	19.6	10.3	16.2	16.2	17.1	13.7	18.5	9.9
	30	17.9	17.9	18.3	17.1	19.6	13.4	17.1	17.1	17.3	16.6	18.5	12.9
	33	18.8	18.8	18.8	18.8	19.5	16.3	17.9	17.9	17.9	17.9	18.4	15.9
3398	24	16.8	15.8	18.3	11.7	19.9	7.4	15.9	15.4	17.2	11.3	18.7	7.0
	27	17.5	17.5	18.4	15.0	19.9	10.8	16.7	16.7	17.4	14.5	18.7	10.4
	30	18.5	18.5	18.9	18.2	19.8	14.1	17.6	17.6	17.6	17.6	18.6	13.7
	33	19.3	19.3	19.3	19.3	19.7	17.4	18.3	18.3	18.3	18.3	18.5	16.9
3738	24	17.1	16.7	18.5	12.3	20.1	7.6	16.2	16.2	17.4	11.8	18.8	7.2
	27	18.0	18.0	18.7	15.8	20.0	11.3	17.1	17.1	17.6	15.4	18.8	10.9
	30	18.9	18.9	18.9	18.9	20.0	14.9	18.0	18.0	18.0	18.0	18.8	14.4
	33	19.7	19.7	19.7	19.7	19.8	18.5	18.7	18.7	18.7	18.7	18.9	18.0
4078	24	17.4	17.4	18.6	12.7	20.2	7.7	16.5	16.5	17.6	12.3	19.0	7.3
	27	18.4	18.4	18.8	16.6	20.2	11.7	17.4	17.4	17.7	16.2	18.9	11.4
	30	19.3	19.3	19.3	19.3	20.1	15.6	18.3	18.3	18.3	18.3	19.0	15.2
	33	20.1	20.1	20.1	20.1	20.0	19.5	19.0	19.0	19.1	19.1	19.3	19.3

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity,

Table 9. Gross cooling capacities (MBH) TTA076G condensing unit with TWE076D air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
2250	75	77.9	65.6	84.3	50.3	92.6	34.1	74.2	63.8	81.7	48.9	89.0	32.8	71.4	62.5	78.0	47.4	85.0	31.4
	80	79.0	78.0	84.5	61.3	92.4	46.5	76.0	76.0	81.9	61.1	88.8	45.2	73.1	73.1	78.2	59.5	84.7	43.9
	85	82.7	82.7	84.8	74.4	92.3	59.0	79.9	79.9	82.4	72.9	88.6	57.7	76.9	76.9	78.6	71.4	84.8	56.3
	90	86.5	86.5	86.9	86.9	92.0	71.0	83.6	83.6	83.6	83.6	88.3	69.6	80.5	80.5	80.5	80.5	84.9	68.1
2500	75	79.4	69.4	86.3	52.6	93.7	34.6	75.4	67.6	82.8	51.2	90.0	33.3	72.7	66.3	79.1	49.7	85.9	31.9
	80	81.2	81.2	86.5	67.4	93.5	48.5	78.3	78.3	83.0	64.5	89.8	47.2	75.3	75.3	79.3	63.0	85.8	45.8
	85	85.2	85.2	87.0	79.2	93.3	62.2	82.3	82.3	83.8	77.7	89.6	61.0	79.1	79.1	80.1	76.1	85.7	59.3
	90	89.1	89.1	89.1	89.1	93.0	75.4	86.1	86.1	86.1	86.1	89.3	74.0	82.8	82.8	82.8	82.8	85.3	72.5
2750	75	80.6	73.3	87.3	54.8	94.6	35.1	77.3	71.7	83.7	53.4	90.8	33.8	73.9	70.1	79.9	51.8	86.5	32.8
	80	83.3	83.3	87.5	69.4	94.3	50.4	80.3	80.3	83.9	67.9	90.5	49.1	77.2	77.2	80.1	66.2	86.5	47.7
	85	87.4	87.4	88.9	85.9	94.2	65.3	84.3	84.3	84.8	82.4	90.4	63.8	81.1	81.1	81.2	79.5	86.4	62.4
	90	91.3	91.3	91.3	91.3	93.8	79.8	88.1	88.1	88.1	88.1	90.0	78.4	84.7	84.7	84.7	84.7	85.9	76.9
3000	75	81.8	77.0	88.1	57.1	95.3	35.7	78.4	75.5	84.5	55.4	91.5	34.4	75.0	73.8	80.6	54.2	87.3	33.0
	80	85.1	85.1	88.4	72.8	95.0	52.3	82.0	82.0	84.9	71.3	91.2	51.0	78.8	78.8	81.2	69.8	87.1	49.6
	85	89.2	89.2	90.1	86.7	94.9	68.3	86.1	86.1	86.1	86.1	91.1	66.9	82.7	82.7	82.7	82.7	87.1	65.4
	90	93.1	93.1	93.1	93.1	94.4	84.1	89.8	89.8	89.8	89.8	90.6	82.7	86.3	86.3	86.3	86.3	86.5	81.2

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
2250	75	68.0	60.8	74.2	45.9	80.8	30.2	64.5	59.2	70.1	44.3	76.2	28.3
	80	70.0	70.0	74.4	57.9	80.7	42.4	66.8	66.8	70.3	56.2	76.1	40.8
	85	73.7	73.7	75.0	69.7	80.5	54.7	70.2	70.2	71.1	68.0	75.8	52.9
	90	77.2	77.2	77.2	77.2	80.2	66.5	73.5	73.5	73.5	73.5	75.6	64.8
2500	75	69.2	64.6	75.1	48.2	81.6	30.5	65.6	62.9	70.9	46.4	76.9	28.9
	80	72.1	72.1	75.3	61.3	81.5	44.3	68.6	68.6	71.2	59.5	76.8	41.8
	85	75.8	75.8	76.2	74.6	81.4	57.7	72.1	72.1	72.1	72.1	76.7	56.0
	90	79.3	79.3	79.3	79.3	81.0	70.9	75.3	75.3	75.3	75.3	76.2	69.2
2750	75	70.3	68.4	75.8	50.4	82.3	31.0	66.7	66.6	71.6	48.4	77.5	31.3
	80	73.8	73.8	76.2	64.7	82.1	46.2	70.2	70.2	72.0	62.9	77.4	45.2
	85	77.5	77.5	77.5	77.5	82.1	60.7	73.7	73.7	73.7	73.7	77.3	59.0
	90	81.0	81.0	81.0	81.0	81.6	75.3	76.9	76.9	76.9	76.9	77.1	73.6
3000	75	71.3	71.3	76.5	52.7	82.8	31.5	67.8	67.8	71.6	51.0	77.9	31.6
	80	75.3	75.3	77.0	68.1	82.7	48.1	71.5	71.5	72.7	66.3	77.8	46.5
	85	79.0	79.0	79.0	79.0	82.7	63.8	75.0	75.0	75.0	75.0	77.8	62.0
	90	82.4	82.4	82.4	82.4	83.8	77.7	78.1	78.1	78.1	78.1	78.7	75.2

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 10. Gross cooling capacities (kW) TTA076G condensing unit with TWE076D air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30 Entering Wet Bulb (°C) 16 kW	16 SHC	19 kW	19 SHC	22 kW	22 SHC	Ambient Temperature (°C) 35 Entering Wet Bulb (°C) 16 kW	16 SHC	19 kW	19 SHC	22 kW	22 SHC	Ambient Temperature (°C) 40 Entering Wet Bulb (°C) 16 kW	16 SHC	19 kW	19 SHC	22 kW	22 SHC
3823	24	22.8	19.2	24.7	14.7	27.1	10.0	21.7	18.7	23.9	14.3	26.1	9.6	20.9	18.3	22.9	13.9	24.9	9.2
	27	23.1	22.9	24.8	18.0	27.1	13.6	22.3	22.3	24.0	17.9	26.0	13.3	21.4	21.4	22.9	17.4	24.8	12.9
	30	24.2	24.2	24.9	21.8	27.0	17.3	23.4	23.4	24.1	21.4	26.0	16.9	22.5	22.5	23.0	20.9	24.8	16.5
	33	25.4	25.4	25.5	25.5	27.0	20.8	24.5	24.5	24.5	24.5	25.9	20.4	23.6	23.6	23.6	23.6	24.9	20.0
4248	24	23.3	20.4	25.3	15.4	27.5	10.1	22.1	19.8	24.3	15.0	26.4	9.8	21.3	19.4	23.2	14.6	25.2	9.4
	27	23.8	23.8	25.4	19.8	27.4	14.2	23.0	23.0	24.3	18.9	26.3	13.8	22.1	22.1	23.2	18.5	25.1	13.4
	30	25.0	25.0	25.5	23.2	27.4	18.2	24.1	24.1	24.6	22.8	26.3	17.9	23.2	23.2	23.5	22.3	25.1	17.4
	33	26.1	26.1	26.1	26.1	27.2	22.1	25.2	25.2	25.2	25.2	26.2	21.7	24.3	24.3	24.3	24.3	25.0	21.3
4672	24	23.6	21.5	25.6	16.1	27.7	10.3	22.7	21.0	24.5	15.7	26.6	9.9	21.7	20.5	23.4	15.2	25.4	9.6
	27	24.4	24.4	25.7	20.4	27.6	14.8	23.5	23.5	24.6	19.9	26.5	14.4	22.6	22.6	23.5	19.4	25.4	14.0
	30	25.6	25.6	26.1	25.2	27.6	19.1	24.7	24.7	24.9	24.1	26.5	18.7	23.8	23.8	23.8	23.3	25.3	18.3
	33	26.7	26.7	26.8	26.8	27.5	23.4	25.8	25.8	25.8	25.8	26.4	23.0	24.8	24.8	24.8	24.8	25.2	22.5
5097	24	24.0	22.6	25.8	16.7	27.9	10.5	23.0	22.1	24.8	16.2	26.8	10.1	22.0	21.6	23.6	15.9	25.6	9.7
	27	24.9	24.9	25.9	21.3	27.8	15.3	24.0	24.0	24.9	20.9	26.7	14.9	23.1	23.1	23.8	20.4	25.5	14.5
	30	26.1	26.1	26.4	25.4	27.8	20.0	25.2	25.2	25.2	25.2	26.7	19.6	24.2	24.2	24.2	24.2	25.5	19.2
	33	27.3	27.3	27.3	27.3	27.7	24.6	26.3	26.3	26.3	26.3	26.5	24.2	25.3	25.3	25.3	25.3	25.3	23.8

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45 Entering Wet Bulb (°C) 16 kW	16 SHC	19 kW	19 SHC	22 kW	22 SHC	Ambient Temperature (°C) 52 Entering Wet Bulb (°C) 16 kW	16 SHC	19 kW	19 SHC	22 kW	22 SHC
3823	24	19.9	17.8	21.7	13.5	23.7	8.9	18.9	17.3	20.5	13.0	22.3	8.3
	27	20.5	20.5	21.8	17.0	23.6	12.4	19.6	19.6	20.6	16.5	22.3	12.0
	30	21.6	21.6	22.0	20.4	23.6	16.0	20.6	20.6	20.8	19.9	22.2	15.5
	33	22.6	22.6	22.6	22.6	23.5	19.5	21.5	21.5	21.5	21.5	22.1	19.0
4248	24	20.3	18.9	22.0	14.1	23.9	8.9	19.2	18.4	20.8	13.6	22.5	8.5
	27	21.1	21.1	22.1	18.0	23.9	13.0	20.1	20.1	20.9	17.5	22.5	12.3
	30	22.2	22.2	22.3	21.9	23.8	16.9	21.1	21.1	21.1	21.1	22.5	16.4
	33	23.2	23.2	23.2	23.2	23.7	20.8	22.1	22.1	22.1	22.1	22.3	20.3
4672	24	20.6	20.0	22.2	14.8	24.1	9.1	19.5	19.5	21.0	14.2	22.7	9.2
	27	21.6	21.6	22.3	19.0	24.1	13.5	20.6	20.6	21.1	18.4	22.7	13.2
	30	22.7	22.7	22.7	22.7	24.1	17.8	21.6	21.6	21.6	21.6	22.7	17.3
	33	23.7	23.7	23.7	23.7	23.9	22.1	22.5	22.5	22.5	22.5	22.6	21.6
5097	24	20.9	20.9	22.4	15.4	24.3	9.2	19.9	19.9	21.0	14.9	22.8	9.3
	27	22.1	22.1	22.6	20.0	24.2	14.1	21.0	21.0	21.3	19.4	22.8	13.6
	30	23.2	23.2	23.2	23.2	24.2	18.7	22.0	22.0	22.0	22.0	22.8	18.2
	33	24.2	24.2	24.2	24.2	24.6	22.8	22.9	22.9	22.9	22.9	23.1	22.0

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.

2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity,

Table 11. Gross cooling capacities (MBH) TTA076G condensing unit with TWE101D air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
2550	75	78.3	68.5	85.1	51.8	91.9	34.3	74.4	66.7	81.7	50.5	88.5	32.8	71.0	65.1	78.1	49.1	84.9	31.6
	80	80.0	80.0	85.3	65.0	91.8	47.6	77.3	77.3	81.8	63.6	88.4	46.6	74.3	74.3	78.3	62.0	84.7	45.2
	85	83.9	83.9	86.0	78.0	91.6	61.1	81.1	81.1	82.6	76.6	88.2	60.1	78.1	78.1	79.1	75.1	84.5	58.5
	90	87.5	87.5	87.5	87.5	91.1	74.1	84.7	84.7	84.7	84.7	87.7	72.9	81.6	81.6	81.6	81.6	84.6	71.5
2850	75	79.7	72.9	86.2	54.4	93.1	34.7	76.5	71.4	82.8	53.1	89.6	33.5	73.1	69.8	78.5	51.5	85.8	32.2
	80	82.4	82.4	86.3	69.0	92.7	49.9	79.6	79.6	83.0	67.6	89.2	48.7	76.5	76.5	78.9	65.9	85.5	47.4
	85	86.3	86.3	87.2	83.5	92.5	64.6	83.4	83.4	83.9	82.1	89.1	63.4	80.3	80.3	80.3	80.3	85.4	62.0
	90	89.9	89.9	89.9	89.9	91.9	79.2	87.0	87.0	87.0	87.0	89.0	78.0	83.8	83.8	83.8	83.8	85.6	76.6
3150	75	81.0	77.3	87.0	56.7	94.0	35.3	77.8	75.7	83.6	55.3	90.4	34.1	74.4	74.1	79.9	53.8	86.5	32.9
	80	84.4	84.4	87.3	72.9	93.5	52.1	81.5	81.5	83.9	71.5	90.0	50.9	78.3	78.3	80.3	70.0	86.2	49.6
	85	88.3	88.3	88.6	86.4	93.3	68.1	85.3	85.3	85.3	85.3	89.5	66.8	82.1	82.1	82.1	82.1	86.3	65.5
	90	91.8	91.8	91.8	91.8	93.0	85.4	88.8	88.8	88.8	88.8	89.3	83.1	85.5	85.5	85.5	85.5	87.0	81.7
3450	75	82.1	81.6	87.8	59.1	94.7	36.0	79.0	79.0	84.3	57.6	91.1	34.8	75.8	75.8	80.5	56.1	86.9	33.6
	80	86.1	86.1	88.1	76.8	94.1	54.3	83.1	83.1	84.7	75.4	90.6	53.1	79.8	79.8	81.1	73.9	86.8	51.5
	85	89.9	89.9	89.9	89.9	94.2	71.9	86.9	86.9	86.9	86.9	90.4	70.4	83.6	83.6	83.6	83.6	86.7	69.0
	90	93.6	93.6	93.6	93.6	95.5	89.8	90.3	90.3	90.3	90.3	91.6	89.2	86.9	86.9	86.9	86.9	87.6	85.8

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
2550	75	68.3	63.8	74.3	47.6	80.8	30.2	65.2	62.3	70.2	45.8	76.3	28.7
	80	71.2	71.2	74.5	60.5	80.5	43.9	68.0	68.0	70.5	58.8	76.1	42.3
	85	74.8	74.8	75.5	73.5	80.5	56.9	71.3	71.3	71.3	71.3	76.1	55.3
	90	78.3	78.3	78.3	78.3	80.0	70.0	74.6	74.6	74.6	74.6	76.3	68.4
2850	75	69.7	68.1	75.2	49.8	81.6	30.8	66.4	66.4	71.1	48.1	76.9	29.3
	80	73.2	73.2	75.5	64.5	81.3	46.1	69.7	69.7	71.6	62.6	76.7	44.6
	85	76.9	76.9	76.9	76.9	81.3	60.5	73.2	73.2	73.2	73.2	76.8	58.8
	90	80.3	80.3	80.3	80.3	81.0	75.1	76.3	76.3	76.3	76.3	77.1	73.5
3150	75	71.0	71.0	76.0	52.2	82.3	31.5	67.7	67.7	71.7	50.4	77.5	29.9
	80	74.9	74.9	76.4	68.4	82.0	48.0	71.2	71.2	72.2	66.6	77.4	46.7
	85	78.6	78.6	78.6	78.6	81.9	64.0	74.7	74.7	74.7	74.7	77.4	62.3
	90	81.9	81.9	81.9	81.9	82.7	80.2	77.8	77.8	77.8	77.8	78.0	78.0
3450	75	72.4	72.4	76.3	55.4	82.8	32.1	68.9	68.9	72.3	52.7	78.1	30.6
	80	76.3	76.3	77.2	72.2	82.5	50.5	72.5	72.5	73.0	70.5	77.9	49.0
	85	80.0	80.0	80.0	80.0	82.5	67.4	75.9	75.9	75.9	75.9	77.9	65.7
	90	83.2	83.2	83.2	83.2	83.4	83.4	79.0	79.0	79.0	79.0	79.0	79.0

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 12. Gross cooling capacities (kW) TTA076G condensing unit with TWE101D air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30 Entering Wet Bulb (°C) 16 kW	SHC	19 kW	SHC	22 kW	SHC	Ambient Temperature (°C) 35 Entering Wet Bulb (°C) 16 kW	SHC	19 kW	SHC	22 kW	SHC	Ambient Temperature (°C) 40 Entering Wet Bulb (°C) 16 kW	SHC	19 kW	SHC	22 kW	SHC
4332	24	22.9	20.1	24.9	15.2	26.9	10.1	21.8	19.6	23.9	14.8	25.9	9.6	20.8	19.1	22.9	14.4	24.9	9.2
	27	23.5	23.5	25.0	19.1	26.9	14.0	22.6	22.6	24.0	18.6	25.9	13.6	21.8	21.8	22.9	18.2	24.8	13.2
	30	24.6	24.6	25.2	22.9	26.8	17.9	23.8	23.8	24.2	22.5	25.8	17.6	22.9	22.9	23.2	22.0	24.8	17.1
	33	25.7	25.7	25.7	25.6	26.7	21.7	24.8	24.8	24.8	24.8	25.7	21.4	23.9	23.9	23.9	23.9	24.8	21.0
4842	24	23.4	21.4	25.2	16.0	27.3	10.2	22.4	20.9	24.3	15.6	26.3	9.8	21.4	20.5	23.0	15.1	25.1	9.4
	27	24.2	24.2	25.3	20.2	27.2	14.6	23.3	23.3	24.3	19.8	26.2	14.3	22.4	22.4	23.1	19.3	25.1	13.9
	30	25.3	25.3	25.6	24.5	27.1	18.9	24.4	24.4	24.6	24.1	26.1	18.6	23.5	23.5	23.5	23.5	25.0	18.2
	33	26.3	26.3	26.3	26.3	26.9	23.2	25.5	25.5	25.5	25.5	26.1	22.8	24.6	24.6	24.6	24.6	25.1	22.5
5352	24	23.7	22.6	25.5	16.6	27.5	10.3	22.8	22.2	24.5	16.2	26.5	10.0	21.8	21.7	23.4	15.8	25.4	9.6
	27	24.7	24.7	25.6	21.4	27.4	15.3	23.9	23.9	24.6	20.9	26.4	14.9	23.0	23.0	23.5	20.5	25.3	14.5
	30	25.9	25.9	26.0	25.3	27.3	20.0	25.0	25.0	25.0	25.0	26.2	19.6	24.1	24.1	24.1	24.1	25.3	19.2
	33	26.9	26.9	26.9	26.9	27.3	25.0	26.0	26.0	26.0	26.0	26.2	24.3	25.1	25.1	25.1	25.1	25.5	23.9
5862	24	24.1	23.9	25.7	17.3	27.7	10.5	23.1	23.1	24.7	16.9	26.7	10.2	22.2	22.2	23.6	16.4	25.5	9.8
	27	25.2	25.2	25.8	22.5	27.6	15.9	24.3	24.3	24.8	22.1	26.5	15.6	23.4	23.4	23.8	21.6	25.4	15.1
	30	26.3	26.3	26.3	26.3	27.6	21.1	25.5	25.5	25.5	25.5	26.5	20.6	24.5	24.5	24.5	24.5	25.4	20.2
	33	27.4	27.4	27.4	27.4	28.0	26.3	26.5	26.5	26.5	26.5	26.8	26.1	25.5	25.5	25.5	25.5	25.7	25.1

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45 Entering Wet Bulb (°C) 16 kW	SHC	19 kW	SHC	22 kW	SHC	Ambient Temperature (°C) 52 Entering Wet Bulb (°C) 16 kW	SHC	19 kW	SHC	22 kW	SHC
4332	24	20.0	18.7	21.8	13.9	23.7	8.8	19.1	18.2	20.6	13.4	22.3	8.4
	27	20.9	20.9	21.8	17.7	23.6	12.9	19.9	19.9	20.7	17.2	22.3	12.4
	30	21.9	21.9	22.1	21.6	23.6	16.7	20.9	20.9	20.9	20.9	22.3	16.2
	33	22.9	22.9	22.9	22.9	23.4	20.5	21.8	21.8	21.9	21.9	22.4	20.0
4842	24	20.4	20.0	22.0	14.6	23.9	9.0	19.5	19.5	20.8	14.1	22.5	8.6
	27	21.5	21.5	22.1	18.9	23.8	13.5	20.4	20.4	21.0	18.4	22.5	13.1
	30	22.5	22.5	22.5	22.5	23.8	17.7	21.4	21.4	21.5	21.5	22.5	17.2
	33	23.5	23.5	23.5	23.5	23.7	22.0	22.4	22.4	22.4	22.4	22.6	21.5
5352	24	20.8	20.8	22.3	15.3	24.1	9.2	19.8	19.8	21.0	14.8	22.7	8.8
	27	22.0	22.0	22.4	20.0	24.0	14.1	20.9	20.9	21.2	19.5	22.7	13.7
	30	23.0	23.0	23.0	23.0	24.0	18.7	21.9	21.9	21.9	21.9	22.7	18.2
	33	24.0	24.0	24.0	24.0	24.2	23.5	22.8	22.8	22.8	22.8	22.9	22.9
5862	24	21.2	21.2	22.4	16.2	24.3	9.4	20.2	20.2	21.2	15.4	22.9	9.0
	27	22.4	22.4	22.6	21.2	24.2	14.8	21.3	21.3	21.4	20.6	22.8	14.4
	30	23.4	23.4	23.4	23.4	24.2	19.8	22.3	22.3	22.3	22.2	22.8	19.3
	33	24.4	24.4	24.4	24.4	24.4	24.4	23.1	23.1	23.2	23.2	23.2	23.2

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 13. Gross cooling capacities (MBH) TTA076H condensing unit with TWE076E air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
2250	75	78.3	67.8	85.8	51.5	93.2	34.3	74.4	66.0	81.6	49.9	88.7	32.7	70.9	64.4	77.3	48.1	84.0	31.1
	80	79.9	79.9	86.0	64.7	93.0	47.5	76.8	76.8	81.8	63.0	88.6	46.0	73.4	73.4	77.5	61.2	83.9	44.4
	85	84.2	84.2	86.3	77.4	92.9	60.7	80.8	80.8	82.2	75.7	88.4	59.2	77.2	77.2	77.9	73.9	83.7	57.6
	90	88.3	88.3	88.4	88.4	93.1	73.8	84.7	84.7	84.9	84.9	88.7	72.2	81.0	81.0	81.1	81.1	84.0	70.6
2500	75	79.7	72.0	86.9	53.9	94.1	34.8	76.1	70.4	82.7	52.2	89.5	33.2	72.2	68.6	78.2	50.5	84.7	31.6
	80	82.4	82.4	87.2	68.4	93.9	49.5	79.0	79.0	83.0	66.8	89.3	48.0	75.5	75.5	78.6	65.0	84.6	46.4
	85	86.7	86.7	87.7	82.4	93.7	64.2	83.2	83.2	83.6	80.7	89.2	62.6	79.4	79.4	80.5	76.3	84.4	60.9
	90	90.7	90.7	90.9	90.9	94.2	76.7	87.0	87.0	87.1	87.1	89.6	77.1	83.0	83.0	83.1	83.1	84.8	75.4
2750	75	81.0	76.2	87.8	56.3	94.4	35.3	77.3	74.5	83.5	54.6	90.1	33.8	73.4	72.8	79.0	52.9	85.3	32.1
	80	84.5	84.5	88.2	72.2	94.6	51.5	81.0	81.0	83.9	70.5	89.9	50.0	77.2	77.2	79.5	68.7	85.1	48.3
	85	88.8	88.8	90.3	85.1	94.8	65.4	85.1	85.1	86.1	86.1	89.7	65.8	81.1	81.1	81.6	80.3	84.9	64.2
	90	92.7	92.7	92.8	92.8	95.0	83.5	88.7	88.7	88.8	88.8	90.8	78.3	84.5	84.5	84.6	84.6	85.5	80.2
3000	75	82.2	80.4	88.5	58.6	95.2	35.8	78.2	78.2	84.2	56.9	90.6	34.3	74.6	74.6	79.6	55.1	85.6	32.6
	80	86.3	86.3	89.1	75.9	95.0	53.5	82.6	82.6	84.7	74.2	90.4	51.9	78.7	78.7	80.3	72.5	85.5	50.3
	85	90.6	90.6	91.5	88.1	94.9	70.7	86.7	86.7	87.4	87.4	90.2	69.1	82.6	82.6	82.6	82.6	85.3	67.6
	90	94.9	94.9	94.9	94.9	96.1	88.5	90.1	90.1	90.1	90.1	91.1	86.7	85.7	85.7	85.8	85.8	86.6	84.1

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
2250	75	66.5	62.4	72.8	46.4	79.0	29.4	62.8	60.8	68.1	44.6	73.7	27.6
	80	69.8	69.8	73.1	59.5	78.9	42.7	66.0	66.0	68.4	57.6	73.5	40.8
	85	73.5	73.5	73.7	72.1	78.7	55.8	69.4	69.4	69.9	67.8	73.3	53.9
	90	76.9	76.9	77.0	77.0	79.1	68.8	72.4	72.4	72.5	72.5	73.4	66.9
2500	75	68.1	66.8	73.6	48.8	79.7	29.9	64.0	64.0	68.8	46.9	74.2	28.1
	80	71.7	71.7	73.8	63.0	79.5	44.7	67.7	67.7	69.0	61.2	74.0	42.9
	85	75.3	75.3	75.7	73.3	79.3	59.2	71.0	71.0	71.0	71.0	73.8	57.3
	90	78.6	78.6	78.7	78.7	79.8	73.6	73.9	73.9	73.9	73.9	74.4	71.7
2750	75	69.4	69.4	74.2	51.1	80.2	30.5	65.4	65.4	69.4	49.2	74.6	28.7
	80	73.3	73.3	74.8	66.9	80.0	46.7	69.0	69.0	69.6	65.0	74.4	44.9
	85	76.9	76.9	76.9	76.9	79.7	62.4	72.3	72.3	72.3	72.3	74.2	60.5
	90	80.0	80.0	80.0	80.0	80.4	78.4	74.9	74.9	75.0	75.0	75.0	75.0
3000	75	70.7	70.7	74.8	53.3	80.6	31.0	66.6	66.6	69.8	51.4	75.0	29.2
	80	74.6	74.6	75.4	69.1	80.3	48.7	70.2	70.2	70.6	68.7	74.7	46.8
	85	78.2	78.2	78.2	78.2	80.1	65.7	73.3	73.3	73.3	73.3	74.5	63.8
	90	80.9	80.9	81.0	81.0	81.1	81.1	75.7	75.7	75.7	75.7	75.7	75.7

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 14. Gross cooling capacities (kW) TTA076H condensing unit with TWE076E air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
3823	24	23.0	19.9	25.1	15.1	27.3	10.0	21.8	19.3	23.9	14.6	26.0	9.6	20.8	18.9	22.7	14.1	24.6	9.1
	27	23.4	23.4	25.2	18.9	27.3	13.9	22.5	22.5	24.0	18.5	26.0	13.5	21.5	21.5	22.7	17.9	24.6	13.0
	30	24.7	24.7	25.3	22.7	27.2	17.8	23.7	23.7	24.1	22.2	25.9	17.3	22.6	22.6	22.8	21.7	24.5	16.9
	33	25.9	25.9	25.9	25.9	27.3	21.6	24.8	24.8	24.9	24.9	26.0	21.2	23.7	23.7	23.8	23.8	24.6	20.7
4248	24	23.4	21.1	25.5	15.8	27.6	10.2	22.3	20.6	24.2	15.3	26.2	9.7	21.1	20.1	22.9	14.8	24.8	9.3
	27	24.2	24.2	25.5	20.1	27.5	14.5	23.2	23.2	24.3	19.6	26.2	14.1	22.1	22.1	23.0	19.1	24.8	13.6
	30	25.4	25.4	25.7	24.2	27.5	18.8	24.4	24.4	24.5	23.7	26.1	18.3	23.3	23.3	23.6	22.4	24.7	17.9
	33	26.6	26.6	26.6	26.6	27.6	22.5	25.5	25.5	25.5	25.5	26.3	22.6	24.3	24.3	24.3	24.3	24.9	22.1
4672	24	23.7	22.3	25.7	16.5	27.7	10.3	22.6	21.8	24.5	16.0	26.4	9.9	21.5	21.3	23.1	15.5	25.0	9.4
	27	24.8	24.8	25.8	21.2	27.7	15.1	23.7	23.7	24.6	20.7	26.4	14.6	22.6	22.6	23.3	20.1	24.9	14.2
	30	26.0	26.0	26.5	24.9	27.8	19.2	24.9	24.9	25.2	25.2	26.3	19.3	23.8	23.8	23.9	23.5	24.9	18.8
	33	27.2	27.2	27.2	27.2	27.9	24.5	26.0	26.0	26.0	26.0	26.6	22.9	24.8	24.8	24.8	24.8	25.1	23.5
5097	24	24.1	23.6	25.9	17.2	27.9	10.5	22.9	22.9	24.7	16.7	26.6	10.0	21.9	21.9	23.3	16.2	25.1	9.6
	27	25.3	25.3	26.1	22.3	27.9	15.7	24.2	24.2	24.8	21.8	26.5	15.2	23.1	23.1	23.5	21.2	25.1	14.8
	30	26.5	26.5	26.8	25.8	27.8	20.7	25.4	25.4	25.6	25.6	26.4	20.2	24.2	24.2	24.2	24.2	25.0	19.8
	33	27.8	27.8	27.8	27.8	28.2	25.9	26.4	26.4	26.4	26.4	26.7	25.4	25.1	25.1	25.1	25.1	25.4	24.6

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
3823	24	19.5	18.3	21.3	13.6	23.2	8.6	18.4	17.8	20.0	13.1	21.6	8.1
	27	20.5	20.5	21.4	17.4	23.1	12.5	19.3	19.3	20.0	16.9	21.5	12.0
	30	21.5	21.5	21.6	21.1	23.1	16.4	20.3	20.3	20.5	19.9	21.5	15.8
	33	22.5	22.5	22.6	22.6	23.2	20.2	21.2	21.2	21.2	21.2	21.5	19.6
4248	24	20.0	19.6	21.6	14.3	23.3	8.8	18.8	18.8	20.2	13.8	21.8	8.2
	27	21.0	21.0	21.6	18.5	23.3	13.1	19.8	19.8	20.2	17.9	21.7	12.6
	30	22.1	22.1	22.2	21.5	23.2	17.3	20.8	20.8	20.8	20.8	21.6	16.8
	33	23.0	23.0	23.1	23.1	23.4	21.6	21.6	21.6	21.7	21.7	21.8	21.0
4672	24	20.3	20.3	21.8	15.0	23.5	8.9	19.2	19.2	20.3	14.4	21.9	8.4
	27	21.5	21.5	21.9	19.6	23.4	13.7	20.2	20.2	20.4	19.0	21.8	13.1
	30	22.5	22.5	22.5	22.5	23.4	18.3	21.2	21.2	21.2	21.2	21.7	17.7
	33	23.4	23.4	23.5	23.5	23.6	23.0	22.0	22.0	22.0	22.0	22.0	22.0
5097	24	20.7	20.7	21.9	15.6	23.6	9.1	19.5	19.5	20.5	15.1	22.0	8.6
	27	21.9	21.9	22.1	20.3	23.5	14.3	20.6	20.6	20.7	20.1	21.9	13.7
	30	22.9	22.9	22.9	22.9	23.5	19.3	21.5	21.5	21.5	21.5	21.8	18.7
	33	23.7	23.7	23.7	23.7	23.8	23.8	22.2	22.2	22.2	22.2	22.2	22.2

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity,

Table 15. Gross cooling capacities (MBH) TTA101G condensing unit with TWE101D air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
3025	75	101.4	87.2	111.2	66.8	120.4	44.5	96.9	85.1	106.0	64.7	114.9	42.6	91.3	82.5	99.8	62.4	108.9	40.5
	80	103.6	103.6	111.6	83.4	120.4	61.6	99.5	99.5	106.5	81.3	114.8	59.6	95.4	95.4	101.1	79.0	108.9	57.6
	85	109.3	109.3	112.9	99.8	120.4	78.6	105.1	105.1	107.2	97.6	114.8	76.5	100.6	100.6	102.0	95.3	108.8	74.3
	90	114.7	114.7	114.7	114.7	120.2	94.9	110.3	110.3	110.3	110.3	114.6	92.8	105.5	105.5	105.5	105.5	108.9	90.6
3350	75	103.3	92.3	112.6	69.8	121.5	45.1	98.6	90.1	107.3	67.7	115.8	43.2	93.8	87.8	101.7	65.5	109.7	41.1
	80	106.7	106.7	113.2	88.0	121.3	64.0	102.5	102.5	108.0	85.8	115.6	62.1	98.0	98.0	102.5	83.5	109.5	60.0
	85	112.6	112.6	114.7	106.1	121.2	82.5	108.1	108.1	109.2	103.9	115.5	80.3	103.4	103.4	103.9	101.6	109.4	78.1
	90	117.7	117.7	117.7	117.7	120.9	100.5	113.0	113.0	113.0	113.0	115.1	98.4	107.8	107.8	107.8	107.8	109.6	96.2
3675	75	104.9	97.4	113.8	72.6	122.3	45.7	100.1	95.1	108.4	70.3	116.5	43.8	95.3	92.8	102.7	68.0	110.4	41.8
	80	109.5	109.5	114.6	92.5	122.0	66.4	105.0	105.0	109.3	90.3	116.2	64.5	100.3	100.3	103.6	88.0	110.0	62.4
	85	115.2	115.2	116.2	112.2	121.8	86.3	110.6	110.6	111.2	108.7	115.9	84.2	105.6	105.6	105.6	105.6	109.8	81.9
	90	119.8	119.8	119.8	119.8	121.3	106.0	114.7	114.7	114.7	114.7	115.4	103.9	109.1	109.1	109.1	109.1	110.1	101.6
4000	75	106.5	102.4	114.8	75.2	122.5	46.3	101.6	100.1	109.4	73.0	117.1	44.5	96.6	96.6	103.6	70.7	110.9	42.4
	80	111.8	111.8	115.7	97.0	122.4	68.8	107.2	107.2	110.3	94.8	116.6	66.9	102.3	102.3	104.6	92.4	110.3	64.8
	85	117.3	117.3	118.6	115.0	122.2	90.2	112.5	112.5	112.5	112.5	116.2	88.0	107.2	107.2	107.2	107.2	109.9	85.6
	90	121.2	121.2	121.2	121.2	122.4	110.7	115.6	115.6	115.6	115.6	115.9	109.3	109.3	109.3	109.3	109.3	110.2	107.1

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
3025	75	87.6	80.6	94.9	60.4	102.5	38.3	83.4	78.7	89.4	58.0	95.4	36.0
	80	91.1	91.1	95.0	76.5	102.4	55.4	86.8	86.8	89.8	74.2	95.2	53.0
	85	95.8	95.8	96.6	92.9	102.3	71.8	90.6	90.6	90.6	90.6	95.1	69.1
	90	100.2	100.2	100.2	100.2	102.0	88.1	94.1	94.1	94.1	94.1	94.7	85.5
3350	75	89.1	85.6	95.9	62.9	103.1	38.9	84.7	83.5	90.2	60.6	96.0	36.6
	80	93.4	93.4	96.7	81.1	102.9	57.8	88.6	88.6	90.6	78.6	95.6	55.4
	85	98.2	98.2	98.2	98.2	102.7	75.6	92.5	92.5	92.5	92.5	95.3	72.9
	90	101.9	101.9	101.9	101.9	102.8	93.7	94.8	94.8	94.8	94.8	94.7	91.0
3675	75	90.5	90.5	96.8	65.5	103.4	39.6	86.0	86.0	90.6	64.2	96.1	37.2
	80	95.3	95.3	96.9	85.3	103.3	60.2	90.1	90.1	91.3	82.8	95.9	57.8
	85	100.1	100.1	100.1	100.1	102.9	79.4	93.9	93.9	93.9	93.9	95.3	76.5
	90	102.4	102.4	102.4	102.4	103.1	99.1	94.9	94.9	94.9	94.9	95.0	94.6
4000	75	91.9	91.9	97.6	68.2	104.2	40.3	87.3	87.3	91.4	65.6	96.9	37.9
	80	97.0	97.0	97.6	89.7	103.5	62.6	91.3	91.3	92.1	87.2	96.0	60.2
	85	101.4	101.4	101.4	101.4	102.9	83.1	94.7	94.7	94.7	94.7	95.4	80.1
	90	102.4	102.4	102.4	102.4	103.4	102.2	94.9	94.9	94.9	94.9	95.3	94.3

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 16. Gross cooling capacities (kW) TTA101G condensing unit with TWE101D air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	29.7	25.6	32.6	19.6	35.3	13.0	28.4	24.9	31.1	19.0	33.7	12.5	26.7	24.2	29.3	18.3	31.9	11.9
	27	30.4	30.4	32.7	24.5	35.3	18.0	29.2	29.2	31.2	23.8	33.6	17.5	27.9	27.9	29.6	23.1	31.9	16.9
	30	32.0	32.0	33.1	29.2	35.3	23.0	30.8	30.8	31.4	28.6	33.6	22.4	29.5	29.5	29.9	27.9	31.9	21.8
	33	33.6	33.6	33.6	33.6	35.2	27.8	32.3	32.3	32.3	32.3	33.6	27.2	30.9	30.9	30.9	30.9	31.9	26.5
5692	24	30.3	27.1	33.0	20.4	35.6	13.2	28.9	26.4	31.4	19.8	33.9	12.7	27.5	25.7	29.8	19.2	32.2	12.1
	27	31.3	31.3	33.2	25.8	35.6	18.8	30.0	30.0	31.7	25.1	33.9	18.2	28.7	28.7	30.0	24.5	32.1	17.6
	30	33.0	33.0	33.6	31.1	35.5	24.2	31.7	31.7	32.0	30.5	33.9	23.5	30.3	30.3	30.5	29.8	32.1	22.9
	33	34.5	34.5	34.5	34.5	35.4	29.5	33.1	33.1	33.1	33.1	33.7	28.8	31.6	31.6	31.6	31.6	32.1	28.2
6252	24	30.7	28.5	33.4	21.3	35.8	13.4	29.3	27.9	31.8	20.6	34.1	12.8	27.9	27.2	30.1	19.9	32.4	12.2
	27	32.1	32.1	33.6	27.1	35.8	19.5	30.8	30.8	32.0	26.5	34.1	18.9	29.4	29.4	30.4	25.8	32.2	18.3
	30	33.8	33.8	34.1	32.9	35.7	25.3	32.4	32.4	32.6	31.9	34.0	24.7	30.9	30.9	30.9	30.9	32.2	24.0
	33	35.1	35.1	35.1	35.1	35.6	31.1	33.6	33.6	33.6	33.6	33.8	30.5	32.0	32.0	32.0	32.0	32.3	29.8
6796	24	31.2	30.0	33.6	22.1	35.9	13.6	29.8	29.3	32.1	21.4	34.3	13.0	28.3	28.3	30.4	20.7	32.5	12.4
	27	32.8	32.8	33.9	28.4	35.9	20.2	31.4	31.4	32.3	27.8	34.2	19.6	30.0	30.0	30.7	27.1	32.3	19.0
	30	34.4	34.4	34.8	33.7	35.8	26.4	33.0	33.0	33.0	33.0	34.1	25.8	31.4	31.4	31.4	31.4	32.2	25.1
	33	35.5	35.5	35.5	35.5	35.9	32.4	33.9	33.9	33.9	33.9	34.0	32.0	32.0	32.0	32.0	32.0	32.3	31.4

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	25.7	23.6	27.8	17.7	30.0	11.2	24.4	23.1	26.2	17.0	28.0	10.5
	27	26.7	26.7	27.8	22.4	30.0	16.2	25.4	25.4	26.3	21.8	27.9	15.5
	30	28.1	28.1	28.3	27.2	30.0	21.0	26.5	26.5	26.6	26.6	27.9	20.3
	33	29.4	29.4	29.4	29.4	29.9	25.8	27.6	27.6	27.6	27.6	27.7	25.0
5692	24	26.1	25.1	28.1	18.4	30.2	11.4	24.8	24.5	26.4	17.8	28.1	10.7
	27	27.4	27.4	28.3	23.8	30.2	16.9	26.0	26.0	26.6	23.0	28.0	16.2
	30	28.8	28.8	28.8	28.8	30.1	22.2	27.1	27.1	27.1	27.1	27.9	21.4
	33	29.9	29.9	29.9	29.9	30.1	27.5	27.8	27.8	27.8	27.8	27.8	26.7
6252	24	26.5	26.5	28.4	19.2	30.3	11.6	25.2	25.2	26.6	18.8	28.2	10.9
	27	27.9	27.9	28.4	25.0	30.3	17.6	26.4	26.4	26.8	24.3	28.1	16.9
	30	29.3	29.3	29.3	29.3	30.2	23.3	27.5	27.5	27.5	27.5	27.9	22.4
	33	30.0	30.0	30.0	30.0	30.2	29.1	27.8	27.8	27.8	27.8	27.8	27.7
6796	24	26.9	26.9	28.6	20.0	30.5	11.8	25.6	25.6	26.8	19.2	28.4	11.1
	27	28.4	28.4	28.6	26.3	30.3	18.3	26.8	26.8	27.0	25.6	28.1	17.6
	30	29.7	29.7	29.7	29.7	30.2	24.3	27.8	27.8	27.8	27.8	28.0	23.5
	33	30.0	30.0	30.0	30.0	30.3	30.0	27.8	27.8	27.8	27.8	27.9	27.6

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 17. Gross cooling capacities (MBH) TTA101H condensing unit with TWE101E air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
3025	75	98.1	85.4	106.9	64.9	116.1	42.9	93.3	83.1	102.2	63.0	111.1	41.2	89.3	81.2	97.5	61.1	106.1	39.4
	80	100.3	100.3	107.0	81.4	114.9	59.5	96.5	96.5	102.6	79.4	111.0	58.1	92.6	92.6	97.9	77.4	106.0	56.4
	85	105.5	105.5	107.5	97.5	114.7	76.3	101.6	101.6	103.2	95.5	110.8	74.9	97.7	97.7	98.8	93.5	105.8	73.0
	90	110.4	110.4	110.6	110.6	115.2	92.7	106.4	106.4	106.6	106.6	110.1	90.8	102.4	102.4	102.5	102.5	106.3	89.3
3350	75	99.8	90.4	108.2	67.8	116.2	43.2	94.9	88.2	103.5	65.9	112.2	41.9	90.9	86.2	98.6	63.9	107.1	40.1
	80	103.2	103.2	108.7	85.9	116.1	62.0	99.3	99.3	104.0	83.9	112.0	60.6	95.2	95.2	99.2	81.9	107.0	58.9
	85	108.4	108.4	109.5	103.6	115.9	80.4	104.4	104.4	104.9	101.6	111.4	78.4	100.3	100.3	100.3	100.3	106.8	77.0
	90	113.3	113.3	113.4	113.4	116.6	98.5	109.1	109.1	109.2	109.2	111.3	96.6	104.9	104.9	105.0	105.0	106.3	94.7
3675	75	101.3	95.4	109.3	70.6	117.2	43.9	96.9	93.3	104.5	68.6	113.1	42.6	92.4	91.2	99.6	66.6	107.9	40.8
	80	105.6	105.6	109.9	90.3	117.1	64.5	101.6	101.6	105.1	88.4	111.7	62.7	97.4	97.4	100.3	86.4	107.8	61.4
	85	110.9	110.9	111.0	109.1	117.0	84.4	106.7	106.7	107.1	107.1	111.5	82.4	102.4	102.4	102.6	100.7	107.5	81.0
	90	114.8	114.8	114.8	114.8	118.0	104.5	110.3	110.3	110.4	110.4	112.5	102.4	106.9	106.9	107.0	107.0	107.8	100.8
4000	75	102.5	100.1	110.2	73.3	118.1	44.6	98.1	98.1	105.3	71.3	113.5	43.3	93.9	93.9	100.4	69.3	108.6	41.6
	80	107.7	107.7	110.9	94.8	117.9	67.1	103.5	103.5	106.1	92.8	112.4	65.2	99.3	99.3	101.3	90.8	108.4	63.7
	85	112.9	112.9	112.9	112.9	117.7	88.3	108.6	108.6	109.3	107.9	112.2	86.3	104.2	104.2	104.2	104.2	108.1	84.9
	90	117.1	117.1	117.3	117.3	119.3	110.3	112.3	112.3	112.4	112.4	113.5	108.2	108.5	108.5	108.6	108.6	109.2	106.6

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
3025	75	84.4	78.9	92.2	59.0	100.7	37.6	79.6	79.6	86.3	56.6	94.6	35.5
	80	88.4	88.4	92.8	75.3	100.6	54.5	83.5	83.5	87.0	72.9	94.5	52.5
	85	93.3	93.3	93.3	93.3	100.5	71.0	88.4	88.4	88.4	88.4	94.4	68.8
	90	97.9	97.9	98.0	98.0	101.0	87.4	92.8	92.8	92.9	92.9	95.0	85.1
3350	75	86.0	83.9	93.3	61.8	101.6	38.3	80.6	80.6	87.3	59.3	95.4	36.2
	80	90.8	90.8	94.0	79.8	101.5	57.1	85.8	85.8	87.8	77.2	95.3	55.0
	85	95.8	95.8	95.8	95.8	101.3	75.0	90.6	90.6	90.6	90.6	95.1	72.8
	90	100.2	100.2	100.3	100.3	102.1	93.1	94.9	94.9	95.0	95.0	96.1	90.9
3675	75	87.6	87.6	94.2	64.4	102.3	39.0	82.5	82.5	88.1	62.0	96.1	36.9
	80	92.9	92.9	94.7	84.0	102.3	59.5	87.7	87.7	88.1	81.5	96.0	57.3
	85	97.8	97.8	97.8	97.8	102.0	79.0	92.5	92.5	92.5	92.5	95.8	76.7
	90	102.1	102.1	102.2	102.2	103.0	98.9	96.6	96.6	96.7	96.7	96.8	96.8
4000	75	89.3	89.3	95.0	67.1	102.9	39.7	84.1	84.1	88.8	64.6	96.7	37.6
	80	94.6	94.6	95.5	88.4	102.9	61.8	89.3	89.3	90.1	86.1	96.6	59.5
	85	99.4	99.4	99.4	99.4	102.5	82.9	94.0	94.0	94.0	94.0	96.3	80.6
	90	103.6	103.6	103.7	103.7	103.7	103.7	98.0	98.0	98.1	98.1	98.1	98.1

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 18. Gross cooling capacities (kW) TTA101H condensing unit with TWE101E air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	28.7	25.0	31.3	19.0	34.0	12.6	27.3	24.4	30.0	18.5	32.6	12.1	26.2	23.8	28.6	17.9	31.1	11.6
	27	29.4	29.4	31.4	23.8	33.7	17.4	28.3	28.3	30.1	23.3	32.5	17.0	27.2	27.2	28.7	22.7	31.1	16.5
	30	30.9	30.9	31.5	28.6	33.6	22.4	29.8	29.8	30.2	28.0	32.5	21.9	28.6	28.6	29.0	27.4	31.0	21.4
	33	32.4	32.4	32.4	32.4	33.8	27.2	31.2	31.2	31.2	31.2	32.3	26.6	30.0	30.0	30.0	30.0	31.2	26.2
5692	24	29.2	26.5	31.7	19.9	34.1	12.7	27.8	25.8	30.3	19.3	32.9	12.3	26.6	25.3	28.9	18.7	31.4	11.8
	27	30.2	30.2	31.9	25.2	34.0	18.2	29.1	29.1	30.5	24.6	32.8	17.8	27.9	27.9	29.1	24.0	31.4	17.3
	30	31.8	31.8	32.1	30.4	34.0	23.5	30.6	30.6	30.7	29.8	32.6	23.0	29.4	29.4	29.4	29.4	31.3	22.6
	33	33.2	33.2	33.2	33.2	34.2	28.9	32.0	32.0	32.0	32.0	32.6	28.3	30.7	30.7	30.8	30.8	31.2	27.8
6252	24	29.7	27.9	32.0	20.7	34.3	12.9	28.4	27.3	30.6	20.1	33.1	12.5	27.1	26.7	29.2	19.5	31.6	12.0
	27	30.9	30.9	32.2	26.5	34.3	18.9	29.8	29.8	30.8	25.9	32.7	18.4	28.6	28.6	29.4	25.3	31.6	18.0
	30	32.5	32.5	32.5	32.0	34.3	24.7	31.3	31.3	31.4	31.4	32.7	24.1	30.0	30.0	30.1	29.5	31.5	23.7
	33	33.6	33.6	33.6	33.6	34.6	30.6	32.3	32.3	32.4	32.4	33.0	30.0	31.3	31.3	31.4	31.4	31.6	29.5
6796	24	30.0	29.3	32.3	21.5	34.6	13.1	28.7	28.7	30.9	20.9	33.3	12.7	27.5	27.5	29.4	20.3	31.8	12.2
	27	31.6	31.6	32.5	27.8	34.6	19.7	30.3	30.3	31.1	27.2	32.9	19.1	29.1	29.1	29.7	26.6	31.8	18.7
	30	33.1	33.1	33.1	33.1	34.5	25.9	31.8	31.8	32.0	31.6	32.9	25.3	30.5	30.5	30.5	30.5	31.7	24.9
	33	34.3	34.3	34.4	34.4	35.0	32.3	32.9	32.9	32.9	32.9	33.3	31.7	31.8	31.8	31.8	31.8	32.0	31.2

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	24.7	23.1	27.0	17.3	29.5	11.0	23.3	23.3	25.3	16.6	27.7	10.4
	27	25.9	25.9	27.2	22.1	29.5	16.0	24.5	24.5	25.5	21.4	27.7	15.4
	30	27.4	27.4	27.4	27.3	29.5	20.8	25.9	25.9	25.9	25.9	27.7	20.2
	33	28.7	28.7	28.7	28.7	29.6	25.6	27.2	27.2	27.2	27.2	27.8	25.0
5692	24	25.2	24.6	27.3	18.1	29.8	11.2	23.6	23.6	25.6	17.4	28.0	10.6
	27	26.6	26.6	27.5	23.4	29.7	16.7	25.1	25.1	25.7	22.6	27.9	16.1
	30	28.1	28.1	28.1	28.1	29.7	22.0	26.6	26.6	26.6	26.6	27.9	21.3
	33	29.4	29.4	29.4	29.4	29.9	27.3	27.8	27.8	27.9	27.9	28.2	26.6
6252	24	25.7	25.7	27.6	18.9	30.0	11.4	24.2	24.2	25.8	18.2	28.2	10.8
	27	27.2	27.2	27.7	24.6	30.0	17.4	25.7	25.7	25.8	23.9	28.1	16.8
	30	28.7	28.7	28.7	28.7	29.9	23.1	27.1	27.1	27.1	27.1	28.1	22.5
	33	29.9	29.9	30.0	30.0	30.2	29.0	28.3	28.3	28.3	28.3	28.4	28.4
6796	24	26.2	26.2	27.8	19.7	30.2	11.6	24.6	24.6	26.0	18.9	28.3	11.0
	27	27.7	27.7	28.0	25.9	30.2	18.1	26.2	26.2	26.4	25.2	28.3	17.4
	30	29.1	29.1	29.1	29.1	30.0	24.3	27.5	27.5	27.5	27.5	28.2	23.6
	33	30.4	30.4	30.4	30.4	30.4	30.4	28.7	28.7	28.7	28.7	28.8	28.8

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 19. Gross cooling capacities (MBH) one compressor - TTA101F condensing unit with TWE101D air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
3025	75	58.8	58.8	62.0	47.2	67.6	26.6	55.6	55.6	58.2	45.9	63.6	25.2	52.2	52.2	54.2	44.5	59.3	23.9
	80	62.5	62.5	62.9	61.4	68.0	42.0	59.2	59.2	59.2	59.2	63.8	40.6	55.6	55.6	55.6	55.6	59.5	39.1
	85	66.2	66.2	66.2	66.2	68.4	57.0	62.7	62.7	62.7	62.7	64.2	55.7	59.0	59.0	59.0	59.0	60.0	54.4
	90	69.8	69.8	69.8	69.8	69.8	69.8	66.2	66.2	66.2	66.2	66.1	66.1	62.3	62.3	62.3	62.3	62.2	62.2
3350	75	59.9	59.9	62.5	49.9	68.1	27.3	56.6	56.6	58.7	48.6	64.0	25.9	53.1	53.1	54.6	47.2	59.7	24.5
	80	63.7	63.7	63.7	63.7	68.4	43.7	60.2	60.2	60.2	60.2	64.2	42.6	56.6	56.6	56.6	56.6	59.8	41.1
	85	67.4	67.4	67.4	67.4	68.9	60.3	63.8	63.8	63.8	63.8	64.8	59.1	60.0	60.0	60.0	60.0	60.5	57.7
	90	71.1	71.1	71.1	71.1	71.1	71.1	67.3	67.3	67.3	67.3	67.3	67.3	63.3	63.3	63.3	63.3	63.3	63.3
3675	75	60.8	60.8	62.9	52.5	68.5	27.7	57.5	57.5	59.1	51.3	64.4	26.6	53.9	53.9	55.0	50.0	60.0	25.2
	80	64.7	64.7	64.7	64.7	68.8	45.5	61.1	61.1	61.1	61.1	64.6	44.3	57.4	57.4	57.4	57.4	60.1	42.9
	85	68.5	68.5	68.5	68.5	69.5	63.5	64.8	64.8	64.7	64.7	65.3	62.3	60.8	60.8	60.8	60.8	60.8	60.8
	90	72.2	72.2	72.2	72.2	72.2	72.2	68.3	68.3	68.3	68.3	68.3	68.3	64.2	64.2	64.2	64.2	64.2	64.2
4000	75	61.6	61.6	63.3	55.2	68.8	28.3	58.2	58.2	59.4	54.0	64.7	27.3	54.5	54.5	55.3	52.7	60.2	25.8
	80	65.5	65.5	65.5	65.5	69.1	47.3	61.9	61.9	61.9	61.9	64.9	46.1	58.1	58.1	58.1	58.1	60.4	44.8
	85	69.4	69.4	69.4	69.4	70.0	66.7	65.6	65.6	65.6	65.6	65.8	65.5	61.6	61.6	61.5	61.5	61.5	61.5
	90	73.2	73.2	73.2	73.2	73.1	73.1	69.2	69.2	69.2	69.2	69.2	69.2	65.0	65.0	65.0	65.0	65.0	65.0

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
3025	75	48.5	48.5	50.0	43.0	54.7	22.4	44.6	44.6	45.5	41.4	49.9	20.9
	80	51.8	51.8	51.8	51.8	54.9	37.6	47.8	47.8	47.8	47.8	50.2	36.0
	85	55.0	55.0	55.0	55.0	55.5	52.9	50.8	50.8	50.8	50.8	50.8	50.8
	90	58.1	58.1	58.1	58.1	58.1	58.1	53.7	53.7	53.7	53.7	53.7	53.7
3350	75	49.3	49.3	50.4	45.8	55.0	23.1	45.3	45.3	45.9	44.3	50.2	21.6
	80	52.7	52.7	52.7	52.7	55.2	39.6	48.5	48.5	48.5	48.5	50.4	38.0
	85	55.9	55.9	55.9	55.9	55.9	55.9	51.6	51.6	51.6	51.6	51.6	51.6
	90	59.1	59.1	59.1	59.1	59.1	59.1	54.5	54.5	54.5	54.5	54.5	54.5
3675	75	50.0	50.0	50.7	48.6	55.3	23.8	45.9	45.9	46.2	46.2	50.4	22.3
	80	53.4	53.4	53.4	53.4	55.5	41.5	49.2	49.2	49.2	49.2	50.7	39.9
	85	56.7	56.7	56.7	56.7	56.6	56.6	52.3	52.3	52.3	52.3	52.2	52.2
	90	59.9	59.9	59.9	59.9	59.9	59.9	55.2	55.2	55.2	55.2	55.2	55.2
4000	75	50.6	50.6	51.0	51.0	55.5	24.4	46.4	46.4	46.4	46.4	50.6	22.9
	80	54.0	54.0	54.0	54.0	55.7	43.3	49.7	49.7	49.7	49.7	50.9	41.8
	85	57.3	57.3	57.3	57.3	57.3	57.3	52.8	52.8	52.8	52.8	52.8	52.8
	90	60.5	60.5	60.5	60.5	60.5	60.5	55.8	55.8	55.8	55.8	55.8	55.8

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 20. Gross cooling capacities (kW) one compressor - TTA101F condensing unit with TWE101D air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	17.2	17.2	18.2	13.8	19.8	7.8	16.3	16.3	17.1	13.4	18.6	7.4	15.3	15.3	15.9	13.0	17.4	7.0
	27	18.3	18.3	18.4	18.0	19.9	12.3	17.3	17.3	17.3	17.3	18.7	11.9	16.3	16.3	16.3	16.3	17.4	11.5
	30	19.4	19.4	19.4	19.4	20.0	16.7	18.4	18.4	18.4	18.4	18.8	16.3	17.3	17.3	17.3	17.3	17.6	15.9
	33	20.5	20.5	20.5	20.5	20.5	20.5	19.4	19.4	19.4	19.4	19.4	19.4	18.2	18.2	18.2	18.2	18.2	18.2
5692	24	17.5	17.5	18.3	14.6	20.0	8.0	16.6	16.6	17.2	14.2	18.8	7.6	15.6	15.6	16.0	13.8	17.5	7.2
	27	18.7	18.7	18.7	18.7	20.0	12.8	17.7	17.7	17.6	17.6	18.8	12.5	16.6	16.6	16.6	16.6	17.5	12.1
	30	19.8	19.8	19.8	19.8	20.2	17.7	18.7	18.7	18.7	18.7	19.0	17.3	17.6	17.6	17.6	17.6	17.7	16.9
	33	20.8	20.8	20.8	20.8	20.8	20.8	19.7	19.7	19.7	19.7	19.7	19.7	18.6	18.6	18.6	18.6	18.5	18.5
6252	24	17.8	17.8	18.4	15.4	20.1	8.1	16.8	16.8	17.3	15.0	18.9	7.8	15.8	15.8	16.1	14.7	17.6	7.4
	27	19.0	19.0	19.0	19.0	20.2	13.3	17.9	17.9	17.9	17.9	18.9	13.0	16.8	16.8	16.8	16.8	17.6	12.6
	30	20.1	20.1	20.1	20.1	20.4	18.6	19.0	19.0	19.0	19.0	19.1	18.3	17.8	17.8	17.8	17.8	17.8	17.8
	33	21.2	21.2	21.2	21.2	21.2	21.2	20.0	20.0	20.0	20.0	20.0	20.0	18.8	18.8	18.8	18.8	18.8	18.8
6796	24	18.1	18.1	18.6	16.2	20.2	8.3	17.1	17.1	17.4	15.8	19.0	8.0	16.0	16.0	16.2	15.5	17.6	7.6
	27	19.2	19.2	19.2	19.2	20.3	13.9	18.1	18.1	18.1	18.1	19.0	13.5	17.0	17.0	17.0	17.0	17.7	13.1
	30	20.3	20.3	20.3	20.3	20.5	19.5	19.2	19.2	19.2	19.2	19.3	19.2	18.0	18.0	18.0	18.0	18.0	18.0
	33	21.4	21.4	21.4	21.4	21.4	21.4	20.3	20.3	20.3	20.3	20.3	20.3	19.0	19.0	19.0	19.0	19.0	19.0

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	14.2	14.2	14.7	12.6	16.0	6.6	13.1	13.1	13.3	12.1	14.6	6.1
	27	15.2	15.2	15.2	15.2	16.1	11.0	14.0	14.0	14.0	14.0	14.7	10.6
	30	16.1	16.1	16.1	16.1	16.3	15.5	14.9	14.9	14.9	14.9	14.9	14.9
	33	17.0	17.0	17.0	17.0	17.0	17.0	15.8	15.8	15.8	15.8	15.8	15.8
5692	24	14.5	14.5	14.8	13.4	16.1	6.8	13.3	13.3	13.5	13.0	14.7	6.3
	27	15.4	15.4	15.4	15.4	16.2	11.6	14.2	14.2	14.2	14.2	14.8	11.1
	30	16.4	16.4	16.4	16.4	16.4	16.4	15.1	15.1	15.1	15.1	15.1	15.1
	33	17.3	17.3	17.3	17.3	17.3	17.3	16.0	16.0	16.0	16.0	16.0	16.0
6252	24	14.7	14.7	14.9	14.2	16.2	7.0	13.5	13.5	13.5	13.5	14.8	6.5
	27	15.6	15.6	15.6	15.6	16.3	12.2	14.4	14.4	14.4	14.4	14.9	11.7
	30	16.6	16.6	16.6	16.6	16.6	16.6	15.3	15.3	15.3	15.3	15.3	15.3
	33	17.5	17.5	17.5	17.5	17.5	17.5	16.2	16.2	16.2	16.2	16.2	16.2
6796	24	14.8	14.8	15.0	15.0	16.3	7.2	13.6	13.6	13.6	13.6	14.8	6.7
	27	15.8	15.8	15.8	15.8	16.3	12.7	14.6	14.6	14.6	14.6	14.9	12.3
	30	16.8	16.8	16.8	16.8	16.8	16.8	15.5	15.5	15.5	15.5	15.5	15.5
	33	17.7	17.7	17.7	17.7	17.7	17.7	16.3	16.3	16.3	16.3	16.3	16.3

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 21. Gross cooling capacities (MBH) both compressors - TTA101F condensing unit with TWE101D air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
3025	75	98.9	84.3	108.6	65.2	118.7	43.7	93.8	81.9	102.9	63.0	112.6	41.5	88.3	79.3	96.9	60.6	106.0	39.3
	80	100.2	100.2	108.7	79.9	118.9	59.6	95.8	95.8	103.1	77.6	112.7	57.3	91.0	91.0	97.1	75.1	106.2	55.0
	85	105.5	105.5	109.2	95.6	119.0	75.1	100.9	100.9	103.7	93.2	112.9	72.9	96.0	96.0	97.8	90.7	106.3	70.5
	90	110.7	110.7	110.7	110.7	119.2	90.7	106.0	106.0	106.0	106.0	113.0	88.4	100.9	100.9	100.9	100.9	106.6	86.0
3350	75	100.5	88.6	110.0	68.2	120.2	44.4	95.3	86.2	104.3	65.9	113.8	42.3	89.7	83.6	98.1	63.4	107.2	40.0
	80	103.0	103.0	110.2	83.9	120.3	61.7	98.4	98.4	104.4	81.5	114.0	59.4	93.4	93.4	98.3	79.0	107.3	57.0
	85	108.4	108.4	110.9	100.9	120.5	78.7	103.6	103.6	105.3	98.5	114.2	76.4	98.5	98.5	99.4	96.0	107.5	74.0
	90	113.8	113.8	113.8	113.8	120.7	95.7	108.9	108.9	108.8	108.8	114.4	93.2	103.6	103.6	103.5	103.5	107.8	90.8
3675	75	101.9	92.8	111.3	71.0	121.4	45.2	96.6	90.4	105.4	68.7	114.9	43.0	91.0	87.8	99.1	66.3	108.1	40.7
	80	105.4	105.4	111.5	87.7	121.5	63.7	100.6	100.6	105.6	85.2	115.1	61.5	95.5	95.5	99.4	82.7	108.3	59.1
	85	111.0	111.0	112.5	106.2	121.7	82.2	106.0	106.0	106.8	103.8	115.3	79.9	100.7	100.7	100.7	100.6	108.5	77.5
	90	116.5	116.5	116.4	116.4	121.9	100.3	111.4	111.4	111.3	111.3	115.7	98.0	105.9	105.9	105.8	105.8	109.0	95.5
4000	75	103.2	96.9	112.3	73.9	122.3	45.8	97.9	94.5	106.3	71.6	115.8	43.7	92.2	91.9	99.9	69.1	108.9	41.4
	80	107.5	107.5	112.5	91.3	122.5	65.7	102.5	102.5	106.6	88.9	116.0	63.5	97.3	97.3	100.3	86.3	109.1	61.1
	85	113.2	113.2	114.0	111.3	122.7	85.6	108.1	108.1	108.0	108.0	116.2	83.3	102.6	102.6	102.6	102.6	109.3	80.8
	90	118.9	118.9	118.8	118.8	123.1	105.0	113.6	113.6	113.5	113.5	116.8	102.6	107.9	107.9	107.8	107.8	110.0	100.2

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
3025	75	82.5	76.6	90.5	58.0	99.1	36.9	76.2	73.8	83.6	55.3	91.7	34.4
	80	85.9	85.9	90.7	72.5	99.3	52.5	80.2	80.2	83.8	69.7	91.8	49.9
	85	90.7	90.7	91.6	88.1	99.4	68.0	84.9	84.9	84.9	84.9	92.0	65.3
	90	95.4	95.4	95.4	95.4	99.7	83.3	89.5	89.5	89.5	89.5	92.4	80.6
3350	75	83.8	80.9	91.5	60.9	100.1	37.6	77.4	77.4	84.5	58.2	92.6	35.1
	80	88.0	88.0	91.8	76.3	100.3	54.6	82.2	82.2	84.8	73.5	92.7	51.9
	85	93.0	93.0	92.9	92.9	100.4	71.5	87.0	87.0	86.9	86.9	92.9	68.9
	90	97.9	97.9	97.9	97.9	100.9	88.2	91.6	91.6	91.6	91.6	93.5	85.5
3675	75	84.9	84.9	92.4	63.8	101.0	38.3	79.0	79.0	85.2	61.0	93.3	35.8
	80	90.0	90.0	92.8	80.0	101.2	56.6	83.9	83.9	85.8	77.2	93.5	54.0
	85	95.0	95.0	95.0	95.0	101.3	75.0	88.8	88.8	88.7	88.7	93.6	72.3
	90	100.0	100.0	100.0	100.0	102.0	93.0	93.5	93.5	93.5	93.5	94.5	90.3
4000	75	86.4	86.4	93.2	66.6	101.7	39.0	80.4	80.4	85.9	63.9	93.9	36.5
	80	91.6	91.6	93.7	83.7	101.9	58.6	85.4	85.4	86.6	80.8	94.1	55.9
	85	96.7	96.7	96.7	96.7	102.0	78.2	90.3	90.3	90.3	90.3	94.3	75.4
	90	101.8	101.8	101.8	101.8	103.0	97.6	95.2	95.2	95.2	95.2	95.5	94.9

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 22. Gross cooling capacities (kW) both compressors - TTA101F condensing unit with TWE101D air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	29.0	24.7	31.8	19.1	34.8	12.8	27.5	24.0	30.2	18.5	33.0	12.2	25.9	23.3	28.4	17.8	31.1	11.5
	27	29.4	29.4	31.9	23.4	34.8	17.5	28.1	28.1	30.2	22.7	33.0	16.8	26.7	26.7	28.5	22.0	31.1	16.1
	30	30.9	30.9	32.0	28.0	34.9	22.0	29.6	29.6	30.4	27.3	33.1	21.4	28.1	28.1	28.7	26.6	31.2	20.7
	33	32.4	32.4	32.4	32.4	34.9	26.6	31.1	31.1	31.1	31.1	33.1	25.9	29.6	29.6	29.6	29.6	31.2	25.2
5692	24	29.4	26.0	32.2	20.0	35.2	13.0	27.9	25.3	30.6	19.3	33.4	12.4	26.3	24.5	28.8	18.6	31.4	11.7
	27	30.2	30.2	32.3	24.6	35.3	18.1	28.8	28.8	30.6	23.9	33.4	17.4	27.4	27.4	28.8	23.2	31.5	16.7
	30	31.8	31.8	32.5	29.6	35.3	23.1	30.4	30.4	30.9	28.9	33.5	22.4	28.9	28.9	29.1	28.1	31.5	21.7
	33	33.4	33.4	33.3	33.3	35.4	28.0	31.9	31.9	31.9	31.9	33.5	27.3	30.3	30.3	30.3	30.3	31.6	26.6
6252	24	29.9	27.2	32.6	20.8	35.6	13.2	28.3	26.5	30.9	20.1	33.7	12.6	26.7	25.7	29.0	19.4	31.7	11.9
	27	30.9	30.9	32.7	25.7	35.6	18.7	29.5	29.5	30.9	25.0	33.7	18.0	28.0	28.0	29.1	24.2	31.7	17.3
	30	32.5	32.5	33.0	31.1	35.7	24.1	31.1	31.1	31.3	30.4	33.8	23.4	29.5	29.5	29.5	29.5	31.8	22.7
	33	34.2	34.2	34.1	34.1	35.7	29.4	32.6	32.6	32.6	32.6	33.9	28.7	31.0	31.0	31.0	31.0	31.9	28.0
6796	24	30.2	28.4	32.9	21.7	35.8	13.4	28.7	27.7	31.2	21.0	33.9	12.8	27.0	26.9	29.3	20.3	31.9	12.1
	27	31.5	31.5	33.0	26.8	35.9	19.3	30.0	30.0	31.2	26.0	34.0	18.6	28.5	28.5	29.4	25.3	32.0	17.9
	30	33.2	33.2	33.4	32.6	35.9	25.1	31.7	31.7	31.7	31.7	34.1	24.4	30.1	30.1	30.1	30.1	32.0	23.7
	33	34.8	34.8	34.8	34.8	36.1	30.8	33.3	33.3	33.3	33.3	34.2	30.1	31.6	31.6	31.6	31.6	32.2	29.4

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	24.2	22.5	26.5	17.0	29.1	10.8	22.3	21.6	24.5	16.2	26.9	10.1
	27	25.2	25.2	26.6	21.2	29.1	15.4	23.5	23.5	24.6	20.4	26.9	14.6
	30	26.6	26.6	26.9	25.8	29.1	19.9	24.9	24.9	24.9	24.9	27.0	19.1
	33	28.0	28.0	28.0	28.0	29.2	24.4	26.2	26.2	26.2	26.2	27.1	23.6
5692	24	24.6	23.7	26.8	17.8	29.3	11.0	22.7	22.7	24.8	17.1	27.1	10.3
	27	25.8	25.8	26.9	22.4	29.4	16.0	24.1	24.1	24.9	21.5	27.2	15.2
	30	27.2	27.2	27.2	27.2	29.4	21.0	25.5	25.5	25.5	25.5	27.2	20.2
	33	28.7	28.7	28.7	28.7	29.6	25.9	26.9	26.9	26.9	26.9	27.4	25.1
6252	24	24.9	24.9	27.1	18.7	29.6	11.2	23.2	23.2	25.0	17.9	27.3	10.5
	27	26.4	26.4	27.2	23.5	29.6	16.6	24.6	24.6	25.1	22.6	27.4	15.8
	30	27.8	27.8	27.8	27.8	29.7	22.0	26.0	26.0	26.0	26.0	27.4	21.2
	33	29.3	29.3	29.3	29.3	29.9	27.2	27.4	27.4	27.4	27.4	27.7	26.5
6796	24	25.3	25.3	27.3	19.5	29.8	11.4	23.6	23.6	25.2	18.7	27.5	10.7
	27	26.8	26.8	27.5	24.5	29.9	17.2	25.0	25.0	25.4	23.7	27.6	16.4
	30	28.3	28.3	28.3	28.3	29.9	22.9	26.5	26.5	26.5	26.5	27.6	22.1
	33	29.8	29.8	29.8	29.8	30.2	28.6	27.9	27.9	27.9	27.9	28.0	27.8

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 23. Gross cooling capacities (MBH) TTA126E condensing unit with TWE126E air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
3750	75	124.9	106.1	137.1	80.8	149.5	55.0	118.3	103.0	129.8	79.1	141.7	52.3	111.2	99.6	122.1	76.0	133.5	49.4
	80	126.2	126.2	137.3	100.5	149.7	74.9	120.6	120.6	130.0	97.4	141.9	72.0	114.5	114.5	122.3	94.2	133.7	69.0
	85	132.8	132.8	137.8	120.2	149.9	94.3	127.0	127.0	130.6	117.0	142.1	91.4	120.7	120.7	123.1	113.8	133.9	88.4
	90	139.4	139.4	139.3	139.3	150.1	113.7	133.3	133.3	133.3	133.3	142.2	110.8	126.8	126.8	126.8	126.8	134.1	107.8
4200	75	127.1	112.1	139.1	86.0	151.4	56.0	120.3	112.7	131.7	83.1	143.4	53.2	113.2	105.7	123.8	80.0	135.1	50.4
	80	130.1	130.1	139.3	106.0	151.6	77.8	124.2	124.2	131.9	102.9	143.6	74.9	117.8	117.8	124.1	99.8	135.3	71.9
	85	137.0	137.0	140.1	127.5	151.8	99.3	130.8	130.8	132.9	124.5	143.8	96.4	124.3	124.3	125.3	121.3	135.5	93.4
	90	143.6	143.6	143.6	143.6	152.1	120.7	137.3	137.3	137.2	137.2	144.1	117.8	130.6	130.6	130.5	130.5	135.8	114.6
4650	75	129.1	118.0	140.8	90.0	153.0	57.0	122.2	114.9	133.2	87.0	144.8	54.2	115.0	111.6	125.2	83.9	136.4	51.3
	80	133.5	133.5	141.0	111.4	153.2	80.6	127.3	127.3	133.5	108.3	145.1	77.8	120.7	120.7	125.5	105.0	136.6	74.8
	85	140.4	140.4	142.3	134.8	153.4	104.1	134.1	134.1	135.0	131.8	145.3	101.2	127.3	127.3	127.2	127.2	136.7	98.2
	90	147.3	147.3	147.2	147.2	153.8	127.2	140.7	140.7	140.6	140.6	145.7	124.3	133.7	133.7	133.7	133.7	137.3	121.2
5100	75	130.8	123.7	142.2	94.0	154.3	57.9	123.9	120.6	134.4	91.0	146.0	55.1	116.4	116.4	126.3	87.9	137.4	52.1
	80	136.4	136.4	142.5	116.4	154.5	83.4	129.9	129.9	134.8	113.3	146.3	80.5	123.2	123.2	126.8	110.1	137.6	77.5
	85	143.5	143.5	144.3	141.9	154.8	108.8	136.9	136.9	136.8	136.8	146.5	105.9	129.9	129.9	129.8	129.8	137.8	102.8
	90	150.4	150.4	150.3	150.3	155.3	133.6	143.6	143.6	143.6	143.6	147.2	130.7	136.4	136.4	136.3	136.3	138.7	127.6

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
3750	75	103.7	99.0	113.9	72.7	124.7	46.4	95.7	92.6	105.0	69.3	115.2	43.1
	80	107.9	107.9	114.1	90.9	124.9	65.9	100.7	100.7	105.3	87.4	115.3	62.5
	85	113.9	113.9	115.2	110.5	125.0	85.2	106.5	106.5	106.5	106.5	115.4	81.8
	90	119.9	119.9	119.8	119.8	125.3	104.6	112.2	112.2	112.2	112.2	115.9	101.0
4200	75	105.6	102.3	115.4	76.7	126.1	47.3	97.5	97.5	106.3	73.2	116.4	44.0
	80	111.0	111.0	115.7	96.4	126.3	68.8	103.5	103.5	106.7	92.8	116.5	65.4
	85	117.2	117.2	117.1	117.1	126.4	90.2	109.4	109.4	109.4	109.4	116.7	86.7
	90	123.3	123.3	123.2	123.2	126.9	111.3	115.2	115.2	115.2	115.2	117.4	107.9
4650	75	107.2	107.2	116.6	80.7	127.2	48.2	99.7	99.7	107.3	77.2	117.3	44.8
	80	113.6	113.6	117.1	101.6	127.4	71.6	105.9	105.9	108.0	98.0	117.5	68.2
	85	119.9	119.9	119.9	119.9	127.6	95.0	111.9	111.9	111.8	111.8	117.7	91.6
	90	126.1	126.1	126.1	126.1	128.4	118.0	117.8	117.8	117.8	117.8	118.8	114.5
5100	75	109.3	109.3	117.6	84.6	128.1	49.0	101.6	101.6	108.2	81.1	118.1	45.6
	80	115.9	115.9	118.3	106.7	128.4	74.3	107.9	107.9	109.1	103.1	118.3	70.9
	85	122.3	122.3	122.2	122.2	128.6	99.7	114.0	114.0	114.0	114.0	118.6	96.0
	90	128.5	128.5	128.5	128.5	129.7	124.5	119.9	119.9	119.9	119.9	119.9	119.9

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 24. Gross cooling capacities (kW) TTA126E condensing unit with TWE126E air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
6371	24	36.6	31.1	40.2	23.7	43.8	16.1	34.7	30.2	38.0	23.2	41.5	15.3	32.6	29.2	35.8	22.3	39.1	14.5
	27	37.0	37.0	40.2	29.4	43.9	21.9	35.3	35.3	38.1	28.5	41.6	21.1	33.5	33.5	35.8	27.6	39.2	20.2
	30	38.9	38.9	40.4	35.2	43.9	27.6	37.2	37.2	38.3	34.3	41.6	26.8	35.4	35.4	36.1	33.4	39.2	25.9
	33	40.8	40.8	40.8	40.8	44.0	33.3	39.1	39.1	39.1	39.1	41.7	32.5	37.2	37.2	37.2	37.2	39.3	31.6
7136	24	37.2	32.9	40.8	25.2	44.4	16.4	35.3	33.0	38.6	24.3	42.0	15.6	33.2	31.0	36.3	23.4	39.6	14.8
	27	38.1	38.1	40.8	31.1	44.4	22.8	36.4	36.4	38.6	30.2	42.1	22.0	34.5	34.5	36.4	29.2	39.6	21.1
	30	40.2	40.2	41.1	37.4	44.5	29.1	38.3	38.3	39.0	36.5	42.2	28.2	36.4	36.4	36.7	35.6	39.7	27.4
	33	42.1	42.1	42.1	42.1	44.6	35.4	40.2	40.2	40.2	40.2	42.2	34.5	38.3	38.3	38.3	38.3	39.8	33.6
7900	24	37.8	34.6	41.3	26.4	44.8	16.7	35.8	33.7	39.0	25.5	42.4	15.9	33.7	32.7	36.7	24.6	40.0	15.0
	27	39.1	39.1	41.3	32.6	44.9	23.6	37.3	37.3	39.1	31.7	42.5	22.8	35.4	35.4	36.8	30.8	40.0	21.9
	30	41.2	41.2	41.7	39.5	45.0	30.5	39.3	39.3	39.6	38.6	42.6	29.7	37.3	37.3	37.3	37.3	40.1	28.8
	33	43.2	43.2	43.2	43.2	45.1	37.3	41.2	41.2	41.2	41.2	42.7	36.4	39.2	39.2	39.2	39.2	40.2	35.5
8665	24	38.3	36.2	41.7	27.5	45.2	17.0	36.3	35.3	39.4	26.7	42.8	16.1	34.1	34.1	37.0	25.8	40.3	15.3
	27	40.0	40.0	41.8	34.1	45.3	24.4	38.1	38.1	39.5	33.2	42.9	23.6	36.1	36.1	37.2	32.3	40.3	22.7
	30	42.1	42.1	42.3	41.6	45.4	31.9	40.1	40.1	40.1	40.1	42.9	31.0	38.1	38.1	38.0	38.0	40.4	30.1
	33	44.1	44.1	44.1	44.1	45.5	39.2	42.1	42.1	42.1	42.1	43.1	38.3	40.0	40.0	40.0	40.0	40.6	37.4

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
6371	24	30.4	29.0	33.4	21.3	36.5	13.6	28.0	27.1	30.8	20.3	33.8	12.6
	27	31.6	31.6	33.5	26.6	36.6	19.3	29.5	29.5	30.9	25.6	33.8	18.3
	30	33.4	33.4	33.8	32.4	36.6	25.0	31.2	31.2	31.2	31.2	33.8	24.0
	33	35.1	35.1	35.1	35.1	36.7	30.6	32.9	32.9	32.9	32.9	34.0	29.6
7136	24	31.0	30.0	33.8	22.5	37.0	13.9	28.6	28.6	31.2	21.5	34.1	12.9
	27	32.5	32.5	33.9	28.3	37.0	20.2	30.3	30.3	31.3	27.2	34.2	19.2
	30	34.3	34.3	34.3	34.3	37.1	26.4	32.1	32.1	32.1	32.1	34.2	25.4
	33	36.1	36.1	36.1	36.1	37.2	32.6	33.8	33.8	33.8	33.8	34.4	31.6
7900	24	31.4	31.4	34.2	23.6	37.3	14.1	29.2	29.2	31.5	22.6	34.4	13.1
	27	33.3	33.3	34.3	29.8	37.3	21.0	31.0	31.0	31.7	28.7	34.4	20.0
	30	35.1	35.1	35.1	35.1	37.4	27.8	32.8	32.8	32.8	32.8	34.5	26.8
	33	37.0	37.0	37.0	37.0	37.6	34.6	34.5	34.5	34.5	34.5	34.8	33.6
8665	24	32.0	32.0	34.5	24.8	37.6	14.4	29.8	29.8	31.7	23.8	34.6	13.4
	27	34.0	34.0	34.7	31.3	37.6	21.8	31.6	31.6	32.0	30.2	34.7	20.8
	30	35.8	35.8	35.8	35.8	37.7	29.2	33.4	33.4	33.4	33.4	34.8	28.1
	33	37.7	37.7	37.7	37.7	38.0	36.5	35.2	35.2	35.2	35.2	35.1	35.1

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 25. Gross cooling capacities (MBH) TTA156E condensing unit with TWE156E air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
4500	75	150.0	121.7	166.4	99.3	183.4	67.6	142.7	118.0	158.4	96.1	174.7	64.5	134.8	114.1	149.7	92.6	165.1	61.2
	80	151.4	143.5	167.0	116.7	184.0	89.5	143.1	143.1	158.9	113.2	175.3	86.1	137.5	132.8	150.3	109.4	165.9	82.5
	85	157.4	157.4	167.1	137.6	184.6	110.8	151.2	151.2	159.2	134.0	175.9	107.4	144.4	144.4	150.7	130.2	166.5	103.7
	90	165.8	165.8	168.7	159.1	185.1	131.9	159.4	159.4	159.2	159.2	176.4	128.5	152.4	152.4	153.6	148.0	166.9	124.8
5000	75	152.8	127.3	169.2	104.0	186.0	68.9	145.3	123.6	160.9	100.7	177.0	65.7	137.2	119.7	152.0	97.2	167.2	62.4
	80	153.8	153.8	169.8	122.0	186.8	92.4	148.3	143.9	161.5	118.4	177.9	89.0	141.0	138.4	152.6	114.6	168.2	85.3
	85	162.4	162.4	170.2	144.6	187.5	115.5	155.8	155.8	162.1	141.0	178.6	112.1	148.7	148.7	153.4	137.2	168.9	108.4
	90	171.0	171.0	170.9	170.9	188.1	138.5	164.3	164.3	165.4	160.3	179.1	135.1	157.0	157.0	157.5	154.6	169.1	130.8
5500	75	155.2	132.7	171.5	108.6	188.2	70.0	147.6	129.0	163.1	105.3	179.0	66.8	139.3	125.0	154.0	101.8	169.0	63.2
	80	158.5	154.6	172.2	127.0	189.2	95.1	151.6	149.4	163.4	123.0	180.1	91.7	144.1	143.9	154.3	118.9	170.2	88.0
	85	166.7	166.7	172.9	151.4	190.0	120.1	159.9	159.9	164.6	147.7	180.9	116.6	152.5	152.5	155.7	143.9	170.9	112.9
	90	175.6	175.6	176.5	172.1	190.2	144.5	168.6	168.6	169.1	166.8	181.1	140.8	161.0	161.0	160.9	160.9	171.2	136.9
6000	75	157.4	138.0	173.5	113.2	190.0	71.1	149.6	134.2	165.0	109.9	180.7	67.7	141.3	130.2	155.6	106.3	170.7	63.9
	80	161.7	159.9	174.0	131.4	191.3	97.8	154.6	154.6	165.4	127.6	182.0	94.3	147.2	147.2	156.1	123.5	171.9	90.6
	85	170.5	170.5	175.2	157.8	192.1	124.5	163.5	163.5	166.9	154.3	182.8	121.0	155.9	155.9	155.7	155.7	172.7	117.2
	90	179.7	179.7	180.0	178.4	192.5	150.3	172.5	172.5	172.4	172.4	183.2	146.6	164.6	164.6	164.5	164.5	173.2	142.7

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
4500	75	126.4	109.9	140.3	88.9	154.6	57.6	117.2	105.5	129.9	84.8	143.1	53.5
	80	129.8	127.0	140.9	105.5	155.6	78.7	121.4	120.9	130.3	100.5	144.3	74.5
	85	137.0	137.0	141.5	126.1	156.2	99.8	128.8	128.8	131.6	121.9	144.9	95.6
	90	144.7	144.7	145.3	142.0	156.3	120.3	136.2	136.2	136.2	135.8	145.2	115.9
5000	75	128.6	115.5	142.3	93.4	156.6	58.5	119.2	111.1	131.7	89.4	144.7	54.8
	80	133.1	132.7	142.7	109.9	157.7	81.4	124.7	124.7	132.2	105.3	146.1	77.2
	85	141.0	141.0	144.0	133.1	158.4	104.5	132.4	132.4	132.2	132.2	146.8	100.3
	90	149.0	149.0	149.0	148.8	158.6	126.6	140.1	140.1	140.0	140.0	147.2	122.2
5500	75	130.6	120.9	144.1	98.0	158.3	59.2	119.8	119.8	133.2	93.9	146.1	56.0
	80	136.3	136.3	144.5	114.6	159.5	84.1	127.6	127.6	133.9	110.0	147.7	79.9
	85	144.5	144.5	144.4	144.4	160.2	109.0	135.6	135.6	136.7	130.6	148.0	103.9
	90	152.7	152.7	152.6	152.6	160.7	132.7	143.5	143.5	143.4	143.4	149.1	128.3
6000	75	130.7	130.7	145.5	102.5	159.5	61.1	123.2	117.5	134.0	96.3	147.3	57.1
	80	139.1	139.1	146.1	119.2	161.0	86.7	130.2	130.2	135.3	114.6	149.0	82.4
	85	147.6	147.6	147.4	147.4	161.4	112.6	138.3	138.3	139.0	135.0	149.4	107.9
	90	156.0	156.0	155.9	155.9	162.4	138.6	146.4	146.4	146.4	146.4	150.7	134.2

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 26. Gross cooling capacities (kW) TTA156E condensing unit with TWE156E air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
7646	24	44.0	35.7	48.8	29.1	53.8	19.8	41.8	34.6	46.4	28.2	51.2	18.9	39.5	33.4	43.9	27.1	48.4	17.9
	27	44.4	42.0	48.9	34.2	53.9	26.2	41.9	41.9	46.6	33.2	51.4	25.2	40.3	38.9	44.0	32.1	48.6	24.2
	30	46.1	46.1	49.0	40.3	54.1	32.5	44.3	44.3	46.7	39.3	51.6	31.5	42.3	42.3	44.2	38.1	48.8	30.4
	33	48.6	48.6	49.4	46.6	54.2	38.7	46.7	46.7	46.7	46.7	51.7	37.7	44.7	44.7	45.0	43.4	48.9	36.6
8495	24	44.8	37.3	49.6	30.5	54.5	20.2	42.6	36.2	47.2	29.5	51.9	19.3	40.2	35.1	44.6	28.5	49.0	18.3
	27	45.1	45.1	49.8	35.8	54.7	27.1	43.5	42.2	47.3	34.7	52.1	26.1	41.3	40.6	44.7	33.6	49.3	25.0
	30	47.6	47.6	49.9	42.4	55.0	33.9	45.7	45.7	47.5	41.3	52.3	32.8	43.6	43.6	44.9	40.2	49.5	31.8
	33	50.1	50.1	50.1	50.1	55.1	40.6	48.1	48.1	48.5	47.0	52.5	39.6	46.0	46.0	46.2	45.3	49.5	38.3
9345	24	45.5	38.9	50.3	31.8	55.1	20.5	43.2	37.8	47.8	30.9	52.5	19.6	40.8	36.6	45.1	29.8	49.5	18.5
	27	46.5	45.3	50.5	37.2	55.4	27.9	44.4	43.8	47.9	36.1	52.8	26.9	42.2	42.2	45.2	34.9	49.9	25.8
	30	48.9	48.9	50.7	44.4	55.7	35.2	46.9	46.9	48.2	43.3	53.0	34.2	44.7	44.7	45.6	42.2	50.1	33.1
	33	51.5	51.5	51.7	50.4	55.8	42.3	49.4	49.4	49.5	48.9	53.1	41.3	47.2	47.2	47.2	47.2	50.2	40.1
10194	24	46.1	40.4	50.9	33.2	55.7	20.8	43.8	39.3	48.3	32.2	53.0	19.8	41.4	38.2	45.6	31.2	50.0	18.7
	27	47.4	46.9	51.0	38.5	56.1	28.7	45.3	45.3	48.5	37.4	53.3	27.6	43.1	43.1	45.7	36.2	50.4	26.6
	30	50.0	50.0	51.4	46.3	56.3	36.5	47.9	47.9	48.9	45.2	53.6	35.5	45.7	45.7	45.6	45.6	50.6	34.4
	33	52.7	52.7	52.8	52.3	56.4	44.0	50.6	50.6	50.5	50.5	53.7	43.0	48.2	48.2	48.2	48.2	50.8	41.8

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
7646	24	37.0	32.2	41.1	26.0	45.3	16.9	34.3	30.9	38.1	24.9	41.9	15.7
	27	38.0	37.2	41.3	30.9	45.6	23.1	35.6	35.4	38.2	29.5	42.3	21.8
	30	40.1	40.1	41.5	37.0	45.8	29.3	37.7	37.7	38.6	35.7	42.5	28.0
	33	42.4	42.4	42.6	41.6	45.8	35.3	39.9	39.9	39.9	39.8	42.5	34.0
8495	24	37.7	33.9	41.7	27.4	45.9	17.1	34.9	32.6	38.6	26.2	42.4	16.1
	27	39.0	38.9	41.8	32.2	46.2	23.9	36.6	36.6	38.7	30.9	42.8	22.6
	30	41.3	41.3	42.2	39.0	46.4	30.6	38.8	38.8	38.8	38.8	43.0	29.4
	33	43.7	43.7	43.7	43.6	46.5	37.1	41.1	41.1	41.0	41.0	43.2	35.8
9345	24	38.3	35.4	42.2	28.7	46.4	17.3	35.1	35.1	39.0	27.5	42.8	16.4
	27	39.9	39.9	42.4	33.6	46.7	24.7	37.4	37.4	39.2	32.2	43.3	23.4
	30	42.3	42.3	42.3	42.3	47.0	31.9	39.7	39.7	40.1	38.3	43.4	30.5
	33	44.8	44.8	44.7	44.7	47.1	38.9	42.0	42.0	42.0	42.0	43.7	37.6
10194	24	38.3	38.3	42.7	30.0	46.8	17.9	36.1	34.4	39.3	28.2	43.2	16.7
	27	40.8	40.8	42.8	34.9	47.2	25.4	38.2	38.2	39.7	33.6	43.7	24.2
	30	43.2	43.2	43.2	43.2	47.3	33.0	40.5	40.5	40.7	39.6	43.8	31.6
	33	45.7	45.7	45.7	45.7	47.6	40.6	42.9	42.9	42.9	42.9	44.2	39.3

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 27. Gross cooling capacities (MBH) TTA156E condensing unit with TWE201E air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
5350	75	156.5	136.4	173.1	107.4	190.6	70.6	148.7	132.8	164.5	104.0	181.3	67.3	140.4	128.9	155.2	100.3	171.1	63.9
	80	160.5	158.1	173.5	130.1	191.2	96.9	153.4	153.1	164.7	126.2	181.9	93.5	146.0	146.0	155.5	122.3	171.8	89.9
	85	169.1	169.1	174.4	156.0	191.7	122.9	162.2	162.2	166.1	152.4	182.3	119.4	154.7	154.7	154.6	154.6	172.3	115.8
	90	178.3	178.3	178.9	176.3	192.1	148.8	171.2	171.2	171.3	171.2	182.7	144.9	163.5	163.5	163.4	163.4	172.7	141.2
5600	75	157.6	139.5	174.2	109.6	191.7	71.2	149.8	135.8	165.5	106.2	182.2	67.9	141.5	132.0	156.1	102.5	172.0	64.4
	80	162.2	161.3	174.6	132.9	192.3	98.4	155.2	155.2	165.8	128.9	182.9	95.0	147.8	147.8	156.5	125.0	172.7	91.4
	85	171.3	171.3	175.8	159.8	192.8	125.4	164.3	164.3	167.4	156.3	183.4	122.0	156.6	156.6	156.5	156.5	173.2	118.3
	90	180.6	180.6	180.9	180.1	193.1	152.0	173.4	173.4	173.3	173.3	183.8	148.4	165.5	165.5	165.4	165.4	173.8	144.7
5850	75	158.7	142.6	175.2	111.8	192.6	71.7	150.9	138.9	166.4	108.4	183.1	68.4	140.5	140.5	157.0	104.8	172.8	65.0
	80	163.9	163.9	175.5	135.4	193.3	99.9	156.9	156.9	166.8	131.6	183.8	96.5	149.4	149.4	157.4	127.7	173.6	92.8
	85	173.3	173.3	177.1	163.6	193.9	127.9	166.2	166.2	166.0	166.0	184.3	124.5	158.4	158.4	158.3	158.3	174.1	120.8
	90	182.8	182.8	182.7	182.7	194.3	155.4	175.4	175.4	175.3	175.3	184.9	151.9	167.4	167.4	167.3	167.3	174.8	148.1
6100	75	159.8	145.5	176.1	114.1	193.5	72.3	151.9	141.9	167.3	110.6	183.8	69.0	141.9	141.9	157.7	106.9	173.5	65.6
	80	165.7	165.7	176.5	138.0	194.2	101.4	158.6	158.6	167.7	134.3	184.7	98.0	151.0	151.0	158.3	130.4	174.4	94.3
	85	175.3	175.3	178.3	167.3	194.8	130.4	168.0	168.0	167.8	167.8	185.2	126.9	160.1	160.1	161.4	155.1	174.9	123.2
	90	184.9	184.9	184.8	184.8	195.3	158.8	177.3	177.3	177.3	177.3	185.9	155.3	169.2	169.2	169.1	169.1	175.7	151.5

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
5350	75	129.7	129.7	145.2	96.5	160.2	60.2	122.5	116.6	134.3	92.3	148.1	56.2
	80	138.1	138.1	145.7	118.2	160.9	86.0	129.3	129.3	134.9	113.7	149.0	81.8
	85	146.6	146.6	148.2	140.9	161.4	111.9	137.5	137.5	138.4	133.9	149.5	107.6
	90	155.1	155.1	155.0	155.0	162.0	137.2	145.7	145.7	145.6	145.6	150.4	132.9
5600	75	131.2	131.2	146.0	98.7	160.9	60.7	123.6	118.6	135.0	94.5	148.7	56.7
	80	139.7	139.7	146.6	120.9	161.7	87.5	130.8	130.8	135.7	116.4	149.7	83.3
	85	148.3	148.3	149.6	143.5	162.2	114.4	139.1	139.1	139.6	136.6	150.0	109.5
	90	156.9	156.9	156.8	156.8	163.0	140.7	147.4	147.3	147.2	147.2	151.3	136.4
5850	75	134.0	127.5	146.8	100.9	161.6	61.3	124.6	120.6	135.6	96.7	149.3	57.3
	80	141.2	141.2	147.4	123.6	162.5	88.9	132.2	132.2	136.5	119.1	150.3	84.7
	85	150.0	150.0	150.9	146.1	162.8	116.3	140.6	140.6	140.8	139.2	150.7	111.9
	90	158.7	158.7	158.5	158.5	163.9	144.1	148.9	148.9	148.9	148.9	152.2	139.9
6100	75	135.0	129.5	147.4	103.0	162.3	61.8	125.6	122.6	136.2	98.8	149.9	57.8
	80	142.6	142.6	148.2	126.2	163.2	90.4	133.4	133.4	137.2	121.8	151.0	86.2
	85	151.5	151.5	152.1	148.6	163.5	118.7	141.9	141.9	142.0	141.8	151.4	114.3
	90	160.3	160.3	160.2	160.2	164.8	147.5	150.4	150.4	150.4	150.4	150.2	150.2

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 28. Gross cooling capacities (kW) TTA156E condensing unit with TWE201E air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
9090	24	45.9	40.0	50.7	31.5	55.9	20.7	43.6	38.9	48.2	30.5	53.1	19.7	41.2	37.8	45.5	29.4	50.1	18.7
	27	47.0	46.3	50.9	38.1	56.0	28.4	45.0	44.9	48.3	37.0	53.3	27.4	42.8	42.8	45.6	35.8	50.4	26.3
	30	49.5	49.5	51.1	45.7	56.2	36.0	47.5	47.5	48.7	44.7	53.4	35.0	45.3	45.3	45.3	45.3	50.5	33.9
	33	52.3	52.3	52.4	51.7	56.3	43.6	50.2	50.2	50.2	50.2	53.5	42.5	47.9	47.9	47.9	47.9	50.6	41.4
9514	24	46.2	40.9	51.0	32.1	56.2	20.9	43.9	39.8	48.5	31.1	53.4	19.9	41.5	38.7	45.7	30.0	50.4	18.9
	27	47.5	47.3	51.2	39.0	56.3	28.8	45.5	45.5	48.6	37.8	53.6	27.8	43.3	43.3	45.9	36.6	50.6	26.8
	30	50.2	50.2	51.5	46.8	56.5	36.8	48.1	48.1	49.1	45.8	53.7	35.7	45.9	45.9	45.9	45.9	50.8	34.7
	33	52.9	52.9	53.0	52.8	56.6	44.5	50.8	50.8	50.8	50.8	53.9	43.5	48.5	48.5	48.5	48.5	50.9	42.4
9939	24	46.5	41.8	51.3	32.8	56.5	21.0	44.2	40.7	48.8	31.8	53.7	20.0	41.2	41.2	46.0	30.7	50.6	19.1
	27	48.0	48.0	51.4	39.7	56.6	29.3	46.0	46.0	48.9	38.6	53.9	28.3	43.8	43.8	46.1	37.4	50.9	27.2
	30	50.8	50.8	51.9	47.9	56.8	37.5	48.7	48.7	48.7	48.7	54.0	36.5	46.4	46.4	46.4	46.4	51.0	35.4
	33	53.6	53.6	53.6	53.6	56.9	45.5	51.4	51.4	51.4	51.4	54.2	44.5	49.1	49.1	49.0	49.0	51.2	43.4
10364	24	46.8	42.7	51.6	33.4	56.7	21.2	44.5	41.6	49.0	32.4	53.9	20.2	41.6	41.6	46.2	31.3	50.9	19.2
	27	48.6	48.6	51.7	40.4	56.9	29.7	46.5	46.5	49.2	39.4	54.1	28.7	44.2	44.2	46.4	38.2	51.1	27.6
	30	51.4	51.4	52.3	49.0	57.1	38.2	49.2	49.2	49.2	49.2	54.3	37.2	46.9	46.9	47.3	45.4	51.3	36.1
	33	54.2	54.2	54.2	54.2	57.2	46.5	52.0	52.0	52.0	52.0	54.5	45.5	49.6	49.6	49.6	49.6	51.5	44.4

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
9090	24	38.0	38.0	42.6	28.3	46.9	17.6	35.9	34.2	39.4	27.0	43.4	16.5
	27	40.5	40.5	42.7	34.6	47.2	25.2	37.9	37.9	39.5	33.3	43.7	24.0
	30	43.0	43.0	43.4	41.3	47.3	32.8	40.3	40.3	40.6	39.3	43.8	31.5
	33	45.4	45.4	45.4	45.4	47.5	40.2	42.7	42.7	42.7	42.7	44.1	39.0
9514	24	38.5	38.5	42.8	28.9	47.2	17.8	36.2	34.8	39.6	27.7	43.6	16.6
	27	40.9	40.9	43.0	35.4	47.4	25.6	38.3	38.3	39.8	34.1	43.9	24.4
	30	43.5	43.5	43.8	42.0	47.5	33.5	40.8	40.8	40.9	40.0	44.0	32.1
	33	46.0	46.0	46.0	46.0	47.8	41.2	43.2	43.2	43.1	43.1	44.3	40.0
9939	24	39.3	37.4	43.0	29.6	47.4	18.0	36.5	35.4	39.8	28.3	43.8	16.8
	27	41.4	41.4	43.2	36.2	47.6	26.1	38.7	38.7	40.0	34.9	44.1	24.8
	30	43.9	43.9	44.2	42.8	47.7	34.1	41.2	41.2	41.3	40.8	44.2	32.8
	33	46.5	46.5	46.5	46.5	48.0	42.2	43.6	43.6	43.6	43.6	44.6	41.0
10364	24	39.6	37.9	43.2	30.2	47.6	18.1	36.8	35.9	39.9	29.0	43.9	16.9
	27	41.8	41.8	43.4	37.0	47.8	26.5	39.1	39.1	40.2	35.7	44.2	25.3
	30	44.4	44.4	44.6	43.6	47.9	34.8	41.6	41.6	41.6	41.6	44.4	33.5
	33	47.0	47.0	47.0	47.0	48.3	43.2	44.1	44.1	44.1	44.1	44.0	44.0

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 29. Gross cooling capacities (MBH) one compressor - TTA156F condensing unit with TWE156E air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
4500	75	90.8	90.8	97.2	71.7	105.9	41.3	86.6	86.6	92.1	66.5	100.6	39.1	82.0	82.0	86.6	73.7	94.3	36.9
	80	96.4	96.4	98.0	90.2	106.4	62.9	92.1	92.1	93.1	88.3	100.7	60.9	87.1	87.1	87.4	86.2	94.5	50.1
	85	101.9	101.9	101.8	101.8	106.6	83.9	97.1	97.1	97.1	97.1	100.9	82.1	92.0	92.0	91.9	91.9	96.0	72.0
	90	107.2	107.2	107.2	107.2	107.8	105.5	103.1	103.1	103.1	103.1	103.1	103.1	100.5	100.5	100.5	100.5	100.5	100.5
5000	75	92.6	92.6	98.1	75.7	106.7	42.4	88.3	88.3	92.9	74.0	101.5	40.0	82.4	82.4	87.2	67.5	95.0	37.8
	80	98.4	98.4	99.2	95.3	107.2	65.8	93.9	93.9	94.2	93.5	101.5	63.8	88.6	88.6	88.0	88.0	95.4	61.4
	85	103.8	103.8	103.8	103.8	107.5	88.5	99.0	99.0	99.0	99.0	102.3	85.3	94.1	94.1	93.7	93.7	96.2	82.3
	90	109.7	109.7	109.7	109.7	109.6	109.6	105.3	105.3	105.3	105.3	105.3	105.3	100.4	100.4	100.4	100.4	100.4	100.4
5500	75	94.2	94.2	98.8	79.7	107.8	43.0	89.8	89.8	93.6	72.6	101.8	41.2	84.9	84.9	88.5	70.8	96.9	39.0
	80	100.1	100.1	100.4	100.3	108.0	67.7	96.0	96.0	95.2	95.2	102.1	65.8	89.9	89.9	89.9	89.9	97.4	64.4
	85	105.5	105.5	105.5	105.5	108.3	92.9	100.6	100.6	101.8	101.8	103.9	91.6	95.4	95.4	96.6	96.6	99.6	89.4
	90	111.6	111.6	111.6	111.6	111.5	111.5	107.0	107.0	107.0	107.0	106.4	106.4	102.0	102.0	102.0	102.0	101.9	101.9
6000	75	95.6	95.6	99.5	83.7	108.1	49.3	91.0	91.0	94.2	75.5	102.5	42.8	86.1	86.1	88.2	73.4	96.1	40.7
	80	101.6	101.6	101.5	101.5	108.5	70.0	96.5	96.5	96.5	96.5	102.6	68.2	91.1	91.1	91.1	91.1	98.3	67.0
	85	107.0	107.0	107.0	107.0	109.0	97.2	101.5	101.5	101.9	101.9	104.6	95.9	98.4	98.4	98.4	98.4	99.3	94.3
	90	113.2	113.2	113.2	113.2	113.2	113.2	108.6	108.6	108.5	108.5	108.5	108.5	103.3	103.3	103.3	103.3	103.3	103.3

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
4500	75	77.0	77.0	80.1	62.0	89.0	34.8	71.6	71.6	73.9	59.6	82.5	32.9
	80	81.5	81.5	81.5	81.5	89.3	48.1	75.7	75.7	75.7	75.7	82.7	46.2
	85	86.6	86.6	87.1	87.1	90.8	69.9	80.9	80.9	82.3	82.3	83.2	67.1
	90	94.7	94.7	97.0	97.0	95.3	95.3	89.5	89.5	93.1	93.1	88.1	88.1
5000	75	78.1	78.1	80.7	65.1	89.1	35.8	72.1	72.1	75.1	63.0	83.1	33.8
	80	82.9	82.9	82.9	82.9	89.2	59.6	77.2	77.2	77.4	77.4	83.3	57.4
	85	88.4	88.4	88.1	88.1	90.1	78.5	81.9	81.9	83.1	83.1	84.2	75.8
	90	95.0	95.0	94.8	94.8	94.2	94.2	89.1	89.1	89.7	89.7	88.3	88.3
5500	75	79.2	79.2	81.2	68.1	90.9	37.0	74.7	74.7	76.3	66.4	84.0	34.7
	80	84.2	84.2	83.0	83.0	91.3	62.5	79.9	79.9	79.9	79.9	84.2	60.2
	85	89.5	89.5	90.1	90.1	93.3	87.2	85.2	85.2	85.2	85.2	85.1	85.1
	90	96.2	96.2	95.8	95.8	96.1	96.1	90.4	90.4	90.4	90.4	90.4	90.4
6000	75	80.2	80.2	81.7	71.1	91.4	37.8	75.7	75.7	76.8	69.4	84.4	35.5
	80	87.0	87.0	87.0	87.0	91.7	64.9	81.0	81.0	80.9	80.9	84.6	62.6
	85	92.6	92.6	92.6	92.6	93.0	92.3	86.3	86.3	86.3	86.3	86.3	86.3
	90	98.2	98.2	98.2	98.2	98.2	98.2	91.6	91.6	91.6	91.6	91.6	91.6

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 30. Gross cooling capacities (MBH) one compressor - TTA156F condensing unit with TWE156E air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
7646	24	26.6	26.6	28.5	21.0	31.0	12.1	25.4	25.4	27.0	19.5	29.5	11.5	24.0	24.0	25.4	21.6	27.7	10.8
	27	28.3	28.3	28.7	26.4	31.2	18.4	27.0	27.0	27.3	25.9	29.5	17.9	25.5	25.5	25.6	25.3	27.7	14.7
	30	29.9	29.9	29.8	29.8	31.2	24.6	28.5	28.5	28.4	28.4	29.6	24.0	27.0	27.0	26.9	26.9	28.1	21.1
	33	31.4	31.4	31.4	31.4	31.6	30.9	30.2	30.2	30.2	30.2	30.2	30.2	29.4	29.4	29.4	29.4	29.4	29.4
8495	24	27.2	27.2	28.7	22.2	31.3	12.4	25.9	25.9	27.2	21.7	29.7	11.7	24.1	24.1	25.6	19.8	27.9	11.1
	27	28.8	28.8	29.1	27.9	31.4	19.3	27.5	27.5	27.6	27.4	29.7	18.7	26.0	26.0	25.8	25.8	28.0	18.0
	30	30.4	30.4	30.4	30.4	31.5	25.9	29.0	29.0	29.0	29.0	30.0	25.0	27.6	27.6	27.5	27.5	28.2	24.1
	33	32.1	32.1	32.1	32.1	32.1	32.1	30.9	30.9	30.9	30.9	30.8	30.8	29.4	29.4	29.4	29.4	29.4	29.4
9345	24	27.6	27.6	29.0	23.4	31.6	12.6	26.3	26.3	27.4	21.3	29.8	12.1	24.9	24.9	25.9	20.8	28.4	11.4
	27	29.3	29.3	29.4	29.4	31.6	19.8	28.1	28.1	27.9	27.9	29.9	19.3	26.4	26.4	26.3	26.3	28.5	18.9
	30	30.9	30.9	30.9	30.9	31.7	27.2	29.5	29.5	29.8	29.8	30.5	26.9	28.0	28.0	28.3	28.3	29.2	26.2
	33	32.7	32.7	32.7	32.7	32.7	32.7	31.4	31.4	31.4	31.4	31.2	31.2	29.9	29.9	29.9	29.9	29.9	29.9
10194	24	28.0	28.0	29.1	24.5	31.7	14.5	26.7	26.7	27.6	22.1	30.1	12.5	25.2	25.2	25.8	21.5	28.2	11.9
	27	29.8	29.8	29.8	29.8	31.8	20.5	28.3	28.3	28.3	28.3	30.1	20.0	26.7	26.7	26.7	26.7	28.8	19.6
	30	31.4	31.4	31.4	31.4	31.9	28.5	29.7	29.7	29.9	29.9	30.7	28.1	28.8	28.8	28.8	28.8	29.1	27.6
	33	33.2	33.2	33.2	33.2	33.2	33.2	31.8	31.8	31.8	31.8	31.8	31.8	30.3	30.3	30.3	30.3	30.3	30.3

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
7646	24	22.6	22.6	23.5	18.2	26.1	10.2	21.0	21.0	21.6	17.5	24.2	9.7
	27	23.9	23.9	23.9	23.9	26.2	14.1	22.2	22.2	22.2	22.2	24.2	13.5
	30	25.4	25.4	25.5	25.5	26.6	20.5	23.7	23.7	24.1	24.1	24.4	19.7
	33	27.8	27.8	28.4	28.4	27.9	27.9	26.2	26.2	27.3	27.3	25.8	25.8
8495	24	22.9	22.9	23.7	19.1	26.1	10.5	21.1	21.1	22.0	18.5	24.4	9.9
	27	24.3	24.3	24.3	24.3	26.1	17.5	22.6	22.6	22.7	22.7	24.4	16.8
	30	25.9	25.9	25.8	25.8	26.4	23.0	24.0	24.0	24.4	24.4	24.7	22.2
	33	27.8	27.8	27.8	27.8	27.6	27.6	26.1	26.1	26.3	26.3	25.9	25.9
9345	24	23.2	23.2	23.8	20.0	26.7	10.8	21.9	21.9	22.4	19.5	24.6	10.2
	27	24.7	24.7	24.3	24.3	26.7	18.3	23.4	23.4	23.4	23.4	24.7	17.6
	30	26.2	26.2	26.4	26.4	27.3	25.6	25.0	25.0	25.0	25.0	25.0	25.0
	33	28.2	28.2	28.1	28.1	28.2	28.2	26.5	26.5	26.5	26.5	26.5	26.5
10194	24	23.5	23.5	23.9	20.8	26.8	11.1	22.2	22.2	22.5	20.3	24.7	10.4
	27	25.5	25.5	25.5	25.5	26.9	19.0	23.7	23.7	23.7	23.7	24.8	18.4
	30	27.1	27.1	27.1	27.1	27.2	27.0	25.3	25.3	25.3	25.3	25.3	25.3
	33	28.8	28.8	28.8	28.8	28.8	28.8	26.9	26.9	26.9	26.9	26.8	26.8

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 31. Gross cooling capacities (MBH) both compressors - TTA156F condensing unit with TWE156E air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
4500	75	149.3	121.3	164.3	98.4	180.1	66.6	142.2	117.4	156.8	95.4	171.8	63.6	134.8	113.7	148.7	92.1	162.7	60.4
	80	150.4	141.8	165.1	115.6	180.9	88.2	143.9	138.5	157.6	112.3	172.7	85.1	136.8	134.9	149.4	108.8	163.7	81.6
	85	156.1	156.1	165.4	136.1	181.7	109.4	150.2	150.2	157.9	132.7	173.5	106.2	143.7	143.7	149.7	129.0	164.5	102.7
	90	164.1	164.1	166.9	156.9	182.3	130.4	158.0	158.0	159.7	153.6	174.1	127.2	151.3	151.3	152.0	150.0	165.0	123.7
5000	75	151.7	126.2	167.0	103.1	182.4	67.7	144.6	122.7	159.3	100.0	173.9	64.8	137.0	118.9	150.8	96.6	164.5	61.6
	80	153.7	149.2	167.8	120.8	183.6	91.1	147.1	145.9	160.1	117.5	175.1	87.9	140.1	140.1	151.6	113.9	165.9	84.4
	85	160.8	160.8	168.2	142.8	184.5	114.1	154.6	154.6	160.5	139.3	176.0	110.8	147.8	147.8	152.2	135.6	166.7	107.3
	90	169.1	169.1	170.4	165.6	185.1	136.9	162.7	162.7	163.2	162.2	176.6	133.6	155.7	155.7	155.6	155.6	167.0	129.2
5500	75	154.0	131.3	169.2	107.6	184.3	68.9	146.7	127.8	161.3	104.5	175.6	65.9	139.0	124.0	152.7	101.1	166.0	62.7
	80	156.8	156.4	170.1	125.8	185.8	93.8	150.2	150.2	161.8	121.7	177.1	90.5	143.4	143.4	153.2	117.9	167.7	87.1
	85	164.9	164.9	170.6	149.2	186.8	118.6	158.5	158.5	162.9	145.7	178.1	115.3	151.4	151.4	154.5	141.9	168.7	111.8
	90	173.5	173.5	173.3	173.3	187.1	142.2	166.8	166.8	166.7	166.7	178.5	138.7	159.5	159.5	159.4	159.4	169.0	135.0
6000	75	155.9	136.2	171.2	112.1	185.9	70.0	148.6	132.7	163.0	109.0	177.1	67.0	140.8	128.9	154.3	105.6	167.5	63.8
	80	159.8	159.8	171.7	129.6	187.8	96.4	153.4	153.4	163.7	126.0	178.9	93.1	146.3	146.3	154.9	122.2	169.3	89.6
	85	168.6	168.6	172.9	155.3	188.8	122.9	161.9	161.9	165.0	151.8	179.9	119.6	154.6	154.6	156.5	148.0	170.3	116.0
	90	177.3	177.3	177.2	177.2	189.2	147.8	170.4	170.4	170.3	170.3	180.3	144.3	162.8	162.8	162.7	162.7	170.7	140.4

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
4500	75	126.7	109.7	139.8	88.5	152.8	57.0	117.9	105.4	130.0	84.7	141.9	53.3
	80	129.4	129.4	140.5	105.0	153.9	78.0	121.7	121.7	130.7	100.9	143.2	74.1
	85	136.7	136.7	141.0	125.0	154.7	99.1	128.7	128.7	131.5	120.7	144.0	95.1
	90	144.0	144.0	143.9	143.9	155.3	120.0	135.7	135.7	135.7	135.7	144.3	115.0
5000	75	128.8	114.9	141.7	93.1	154.4	58.1	119.9	110.6	131.7	89.2	143.4	54.4
	80	132.9	132.9	142.2	109.3	155.9	80.8	124.9	124.9	132.2	104.9	144.9	76.8
	85	140.4	140.4	143.3	131.6	156.7	103.6	132.2	132.2	133.7	127.3	145.7	99.6
	90	148.0	148.0	147.9	147.9	157.1	125.2	139.4	139.4	139.3	139.3	146.1	120.9
5500	75	130.7	120.0	143.4	97.6	155.9	59.3	121.6	115.6	133.2	93.7	144.7	55.6
	80	136.0	136.0	143.9	113.8	157.5	83.4	127.7	127.7	133.7	109.3	146.4	79.4
	85	143.7	143.7	145.5	137.9	158.4	108.0	135.1	135.1	135.7	133.5	147.3	104.0
	90	151.4	151.4	151.3	151.3	158.9	130.9	142.5	142.5	142.4	142.4	147.7	126.5
6000	75	132.4	124.8	144.8	102.0	157.1	60.4	123.2	120.4	134.4	98.1	145.7	56.7
	80	138.6	138.6	145.4	118.1	159.0	85.9	130.1	130.1	135.0	113.6	147.6	81.9
	85	146.6	146.6	147.5	144.0	159.5	111.2	137.7	137.7	137.6	137.6	148.2	106.8
	90	154.5	154.5	154.4	154.4	160.4	136.4	145.2	145.2	145.2	145.2	149.3	132.0

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 32. Gross cooling capacities (kW) both compressors - TTA156F condensing unit with TWE156E air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
7646	24	43.8	35.5	48.2	28.9	52.8	19.5	41.7	34.4	46.0	28.0	50.3	18.6	39.5	33.3	43.6	27.0	47.7	17.7
	27	44.1	41.6	48.4	33.9	53.0	25.9	42.2	40.6	46.2	32.9	50.6	24.9	40.1	39.5	43.8	31.9	48.0	23.9
	30	45.8	45.8	48.5	39.9	53.3	32.1	44.0	44.0	46.3	38.9	50.8	31.1	42.1	42.1	43.9	37.8	48.2	30.1
	33	48.1	48.1	48.9	46.0	53.4	38.2	46.3	46.3	46.8	45.0	51.0	37.3	44.4	44.4	44.5	43.9	48.4	36.2
8495	24	44.5	37.0	48.9	30.2	53.5	19.9	42.4	36.0	46.7	29.3	51.0	19.0	40.1	34.9	44.2	28.3	48.2	18.0
	27	45.0	43.7	49.2	35.4	53.8	26.7	43.1	42.8	46.9	34.4	51.3	25.8	41.1	41.1	44.4	33.4	48.6	24.7
	30	47.1	47.1	49.3	41.8	54.1	33.4	45.3	45.3	47.0	40.8	51.6	32.5	43.3	43.3	44.6	39.7	48.9	31.5
	33	49.6	49.6	49.9	48.5	54.3	40.1	47.7	47.7	47.8	47.5	51.8	39.2	45.6	45.6	45.6	45.6	48.9	37.9
9345	24	45.1	38.5	49.6	31.5	54.0	20.2	43.0	37.4	47.3	30.6	51.5	19.3	40.7	36.3	44.7	29.6	48.7	18.4
	27	45.9	45.8	49.9	36.9	54.5	27.5	44.0	44.0	47.4	35.7	51.9	26.5	42.0	42.0	44.9	34.5	49.2	25.5
	30	48.3	48.3	50.0	43.7	54.7	34.7	46.4	46.4	47.7	42.7	52.2	33.8	44.4	44.4	45.3	41.6	49.4	32.8
	33	50.8	50.8	50.8	50.8	54.8	41.7	48.9	48.9	48.9	48.9	52.3	40.7	46.7	46.7	46.7	46.7	49.5	39.6
10194	24	45.7	39.9	50.2	32.9	54.5	20.5	43.6	38.9	47.8	31.9	51.9	19.6	41.3	37.8	45.2	31.0	49.1	18.7
	27	46.8	46.8	50.3	38.0	55.0	28.2	45.0	45.0	48.0	36.9	52.4	27.3	42.9	42.9	45.4	35.8	49.6	26.3
	30	49.4	49.4	50.7	45.5	55.3	36.0	47.4	47.4	48.4	44.5	52.7	35.0	45.3	45.3	45.9	43.4	49.9	34.0
	33	52.0	52.0	51.9	51.9	55.4	43.3	49.9	49.9	49.9	49.9	52.8	42.3	47.7	47.7	47.7	47.7	50.0	41.2

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
7646	24	37.1	32.1	41.0	26.0	44.8	16.7	34.6	30.9	38.1	24.8	41.6	15.6
	27	37.9	37.9	41.2	30.8	45.1	22.9	35.7	35.7	38.3	29.6	42.0	21.7
	30	40.1	40.1	41.3	36.6	45.3	29.0	37.7	37.7	38.5	35.4	42.2	27.9
	33	42.2	42.2	42.2	42.2	45.5	35.2	39.8	39.8	39.8	39.8	42.3	33.7
8495	24	37.7	33.7	41.5	27.3	45.3	17.0	35.1	32.4	38.6	26.1	42.0	16.0
	27	39.0	39.0	41.7	32.0	45.7	23.7	36.6	36.6	38.7	30.8	42.5	22.5
	30	41.2	41.2	42.0	38.6	45.9	30.4	38.7	38.7	39.2	37.3	42.7	29.2
	33	43.4	43.4	43.3	43.3	46.0	36.7	40.8	40.8	40.8	40.8	42.8	35.4
9345	24	38.3	35.2	42.0	28.6	45.7	17.4	35.6	33.9	39.0	27.4	42.4	16.3
	27	39.8	39.8	42.2	33.4	46.2	24.4	37.4	37.4	39.2	32.0	42.9	23.3
	30	42.1	42.1	42.6	40.4	46.4	31.7	39.6	39.6	39.8	39.1	43.2	30.5
	33	44.4	44.4	44.4	44.4	46.6	38.4	41.8	41.8	41.7	41.7	43.3	37.1
10194	24	38.8	36.6	42.4	29.9	46.0	17.7	36.1	35.3	39.4	28.7	42.7	16.6
	27	40.6	40.6	42.6	34.6	46.6	25.2	38.1	38.1	39.6	33.3	43.3	24.0
	30	43.0	43.0	43.2	42.2	46.7	32.6	40.3	40.3	40.3	40.3	43.4	31.3
	33	45.3	45.3	45.3	45.3	47.0	40.0	42.6	42.6	42.6	42.6	43.7	38.7

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 33. Gross cooling capacities (MBH) TTA201E condensing unit with TWE201E air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
6000	75	212.5	171.0	234.4	137.6	258.3	95.0	202.4	165.8	223.5	133.1	246.1	90.6	192.0	160.6	211.8	128.3	233.0	85.9
	80	214.4	200.4	235.2	163.1	258.6	125.1	205.1	195.5	224.3	158.3	246.4	120.4	195.0	190.4	212.5	153.2	233.4	115.4
	85	221.6	221.6	235.9	192.6	259.1	154.4	213.2	213.2	224.8	187.3	247.0	149.7	204.0	204.0	213.2	182.0	234.0	144.7
	90	233.0	233.0	238.0	221.6	259.7	183.6	224.2	224.2	227.6	216.7	247.6	178.9	214.7	214.7	214.4	214.4	234.6	173.8
6680	75	216.2	178.8	238.4	143.9	262.2	96.7	206.2	173.8	227.1	139.3	249.7	92.3	195.3	168.4	215.0	134.5	236.1	87.5
	80	219.3	211.4	239.2	170.6	262.6	129.2	208.4	208.4	227.9	165.8	250.1	124.5	199.0	199.0	215.8	160.6	236.6	119.5
	85	228.6	228.6	239.9	202.3	263.3	161.2	219.7	219.7	228.8	197.2	250.8	156.4	210.1	210.1	217.0	191.9	237.4	151.4
	90	240.4	240.4	243.3	234.5	263.9	193.1	231.2	231.2	231.0	231.0	251.4	188.3	221.1	221.1	221.0	221.0	238.1	183.2
7350	75	219.7	186.5	241.7	150.1	265.6	98.3	209.4	181.4	230.2	145.5	252.6	93.8	198.3	176.0	217.7	140.6	238.7	88.8
	80	222.6	222.6	242.6	177.9	266.0	133.1	213.7	213.7	231.0	173.0	253.2	128.4	204.0	204.0	218.6	167.8	239.4	123.3
	85	234.7	234.7	243.6	211.8	266.7	167.8	225.5	225.5	232.4	206.8	253.9	162.9	215.4	215.4	220.4	201.3	240.2	157.8
	90	246.9	246.9	246.7	246.7	267.4	202.2	237.3	237.3	237.1	237.1	254.6	197.4	226.8	226.8	226.6	226.6	240.7	191.5
8030	75	222.7	193.9	244.6	156.2	268.4	99.8	212.2	188.8	232.7	151.6	255.2	95.1	201.1	183.3	220.1	146.7	241.0	90.0
	80	227.7	227.7	245.5	184.9	268.9	136.9	218.4	218.4	233.2	179.3	255.8	132.1	208.3	208.3	220.7	173.8	241.8	127.0
	85	240.2	240.2	247.1	221.1	269.7	174.1	230.5	230.5	235.7	216.0	256.6	169.2	220.0	220.0	223.5	210.5	242.6	164.1
	90	252.7	252.7	252.5	252.5	270.1	210.5	242.6	242.6	242.5	242.5	257.1	205.3	231.7	231.7	231.6	231.6	243.3	199.8

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
6000	75	180.6	154.9	199.0	123.2	218.7	80.9	168.1	148.8	184.9	117.6	202.8	75.5
	80	183.7	183.7	199.8	147.8	219.2	110.2	172.8	172.8	185.7	141.9	203.6	104.4
	85	193.9	193.9	200.8	176.4	219.9	139.4	182.6	182.6	187.1	170.2	204.3	133.6
	90	204.2	204.2	204.0	204.0	220.6	168.5	192.4	192.4	192.2	192.2	204.7	162.1
6680	75	183.7	162.7	201.9	129.3	221.4	82.5	171.0	156.5	187.4	123.7	205.1	77.0
	80	188.9	188.9	202.7	155.1	222.1	114.1	177.4	177.4	187.9	148.4	206.1	108.3
	85	199.4	199.4	204.3	186.1	222.9	146.0	187.6	187.6	190.4	179.9	206.9	140.2
	90	210.1	210.1	209.9	209.9	223.3	177.1	197.7	197.7	197.5	197.5	207.5	170.9
7350	75	186.5	170.2	204.2	135.4	223.6	84.0	173.6	163.9	189.4	129.7	207.0	78.5
	80	193.4	193.4	204.8	161.4	224.5	117.9	181.5	181.5	190.2	155.1	208.2	112.1
	85	204.3	204.3	207.5	195.6	225.3	152.4	191.9	191.9	191.7	191.7	209.0	146.5
	90	215.2	215.2	215.1	215.1	226.0	185.7	202.3	202.3	202.2	202.2	210.0	179.4
8030	75	189.0	177.4	206.3	141.4	225.5	85.5	174.4	174.4	191.2	135.7	208.7	80.0
	80	197.3	197.3	207.1	167.9	226.6	121.6	185.0	185.0	192.2	161.5	209.9	115.7
	85	208.6	208.6	208.4	208.4	227.5	158.6	195.7	195.7	195.5	195.5	210.4	151.9
	90	219.8	219.8	219.6	219.6	228.5	194.0	206.4	206.3	206.2	206.2	212.3	187.6

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 34. Gross cooling capacities (kW) TTA201E condensing unit with TWE201E air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
10194	24	62.3	50.1	68.7	40.3	75.7	27.8	59.3	48.6	65.5	39.0	72.1	26.6	56.3	47.1	62.1	37.6	68.3	25.2
	27	62.8	58.7	68.9	47.8	75.8	36.7	60.1	57.3	65.7	46.4	72.2	35.3	57.2	55.8	62.3	44.9	68.4	33.8
	30	64.9	64.9	69.1	56.5	75.9	45.3	62.5	62.5	65.9	54.9	72.4	43.9	59.8	59.8	62.5	53.4	68.6	42.4
	33	68.3	68.3	69.7	64.9	76.1	53.8	65.7	65.7	66.7	63.5	72.6	52.4	62.9	62.9	62.8	62.8	68.8	50.9
11349	24	63.4	52.4	69.9	42.2	76.8	28.3	60.4	50.9	66.6	40.8	73.2	27.0	57.3	49.4	63.0	39.4	69.2	25.6
	27	64.3	62.0	70.1	50.0	77.0	37.9	61.1	61.1	66.8	48.6	73.3	36.5	58.3	58.3	63.2	47.1	69.4	35.0
	30	67.0	67.0	70.3	59.3	77.2	47.3	64.4	64.4	67.0	57.8	73.5	45.9	61.6	61.6	63.6	56.2	69.6	44.4
	33	70.5	70.5	71.3	68.7	77.3	56.6	67.8	67.8	67.7	67.7	73.7	55.2	64.8	64.8	64.8	64.8	69.8	53.7
12488	24	64.4	54.7	70.8	44.0	77.8	28.8	61.4	53.2	67.5	42.6	74.0	27.5	58.1	51.6	63.8	41.2	70.0	26.0
	27	65.2	65.2	71.1	52.1	78.0	39.0	62.6	62.6	67.7	50.7	74.2	37.6	59.8	59.8	64.1	49.2	70.2	36.1
	30	68.8	68.8	71.4	62.1	78.2	49.2	66.1	66.1	68.1	60.6	74.4	47.8	63.1	63.1	64.6	59.0	70.4	46.3
	33	72.4	72.4	72.3	72.3	78.4	59.3	69.5	69.5	69.5	69.5	74.6	57.9	66.5	66.5	66.4	66.4	70.5	56.1
13643	24	65.3	56.8	71.7	45.8	78.7	29.3	62.2	55.3	68.2	44.4	74.8	27.9	58.9	53.7	64.5	43.0	70.6	26.4
	27	66.7	66.7	72.0	54.2	78.8	40.1	64.0	64.0	68.4	52.6	75.0	38.7	61.1	61.1	64.7	50.9	70.9	37.2
	30	70.4	70.4	72.4	64.8	79.0	51.0	67.6	67.6	69.1	63.3	75.2	49.6	64.5	64.5	65.5	61.7	71.1	48.1
	33	74.1	74.1	74.0	74.0	79.2	61.7	71.1	71.1	71.1	71.1	75.4	60.2	67.9	67.9	67.9	67.9	71.3	58.6

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
10194	24	52.9	45.4	58.3	36.1	64.1	23.7	49.3	43.6	54.2	34.5	59.4	22.1
	27	53.8	53.8	58.5	43.3	64.2	32.3	50.6	50.6	54.4	41.6	59.7	30.6
	30	56.8	56.8	58.8	51.7	64.5	40.8	53.5	53.5	54.8	49.9	59.9	39.2
	33	59.8	59.8	59.8	59.8	64.6	49.4	56.4	56.4	56.3	56.3	60.0	47.5
11349	24	53.8	47.7	59.2	37.9	64.9	24.2	50.1	45.9	54.9	36.2	60.1	22.6
	27	55.3	55.3	59.4	45.5	65.1	33.4	52.0	52.0	55.1	43.5	60.4	31.7
	30	58.4	58.4	59.9	54.6	65.3	42.8	55.0	55.0	55.8	52.7	60.6	41.1
	33	61.6	61.6	61.5	61.5	65.4	51.9	57.9	57.9	57.9	57.9	60.8	50.1
12488	24	54.7	49.9	59.9	39.7	65.5	24.6	50.9	48.0	55.5	38.0	60.7	23.0
	27	56.7	56.7	60.0	47.3	65.8	34.6	53.2	53.2	55.7	45.4	61.0	32.9
	30	59.9	59.9	60.8	57.3	66.0	44.7	56.2	56.2	56.2	56.2	61.3	42.9
	33	63.1	63.1	63.0	63.0	66.2	54.4	59.3	59.3	59.3	59.3	61.5	52.6
13643	24	55.4	52.0	60.5	41.4	66.1	25.1	51.1	51.1	56.0	39.8	61.2	23.4
	27	57.8	57.8	60.7	49.2	66.4	35.6	54.2	54.2	56.3	47.3	61.5	33.9
	30	61.1	61.1	61.1	61.1	66.7	46.5	57.4	57.4	57.3	57.3	61.7	44.5
	33	64.4	64.4	64.4	64.4	67.0	56.9	60.5	60.5	60.4	60.4	62.2	55.0

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 35. Gross cooling capacities (MBH) one compressor - TTA201F condensing unit with TWE201E air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
6000	75	124.1	118.8	136.5	99.0	150.1	57.7	118.3	116.1	129.6	96.5	142.5	55.3	112.1	112.1	122.3	93.7	134.2	52.6
	80	130.5	130.5	136.6	112.5	150.3	81.3	125.0	125.0	129.8	109.7	142.7	78.6	119.0	119.0	122.4	106.7	134.4	75.8
	85	138.0	138.0	138.3	137.3	150.5	106.1	132.2	132.2	132.2	132.2	142.9	103.4	125.9	125.9	125.8	125.8	134.6	100.5
	90	145.5	145.5	145.5	145.5	150.7	130.1	139.5	139.5	139.4	139.4	143.1	127.3	132.8	132.8	132.7	132.7	135.1	124.3
6680	75	126.1	124.9	138.0	105.0	151.6	59.3	120.4	120.4	131.0	101.5	143.8	56.8	114.4	114.4	123.4	98.7	135.3	54.1
	80	133.5	133.5	138.2	117.9	151.8	84.3	127.8	127.8	131.2	115.0	144.0	81.6	121.5	121.5	123.8	112.0	135.6	78.7
	85	141.2	141.2	141.1	141.1	152.0	111.2	135.2	135.2	135.1	135.1	144.1	108.1	128.5	128.5	128.5	128.5	135.7	105.0
	90	148.9	148.9	148.9	148.9	152.4	137.0	142.6	142.6	142.5	142.5	144.8	134.2	135.6	135.6	135.5	135.5	136.5	131.2
7350	75	128.2	128.2	139.2	109.9	152.9	60.5	122.6	122.6	132.1	107.2	144.9	55.5	116.4	116.4	124.4	104.4	136.2	55.5
	80	136.1	136.1	139.4	123.0	153.1	87.2	130.1	130.1	132.5	120.2	145.1	84.5	123.6	123.6	125.0	117.2	136.6	81.6
	85	144.0	144.0	143.9	143.9	153.2	115.6	137.7	137.7	137.6	137.6	145.3	112.7	130.8	130.8	130.8	130.8	136.7	109.6
	90	151.9	151.9	151.8	151.8	153.9	143.7	145.3	145.3	145.3	145.3	146.2	140.8	137.7	137.7	137.7	137.7	137.9	137.7
8030	75	130.3	130.3	140.3	115.6	153.9	59.1	124.5	124.5	133.0	112.6	145.1	59.1	118.2	118.2	125.2	109.6	137.1	57.0
	80	138.3	138.3	140.7	128.0	154.2	90.0	132.2	132.2	133.7	125.1	146.3	87.3	125.5	125.5	126.2	122.1	137.4	84.3
	85	146.4	146.4	146.3	146.3	154.4	120.0	139.9	139.9	139.9	139.9	146.5	117.2	132.8	132.8	132.8	132.8	137.4	114.0
	90	154.3	154.3	154.3	154.3	155.3	150.0	147.4	147.4	147.3	147.3	148.1	147.4	139.7	139.7	139.6	139.6	139.6	139.6

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
6000	75	105.8	105.8	114.3	90.0	125.2	49.8	98.8	98.8	105.6	86.8	115.5	46.7
	80	112.3	112.3	114.5	103.5	125.5	72.7	105.0	105.0	106.1	100.0	115.8	69.4
	85	118.9	118.9	118.8	118.8	125.6	97.0	111.1	111.1	111.0	111.0	116.0	93.5
	90	125.4	125.4	125.4	125.4	126.5	121.2	117.2	117.2	117.2	117.2	117.1	117.1
6680	75	107.9	107.9	115.3	95.7	126.2	51.2	100.7	100.7	106.4	92.0	116.4	48.2
	80	114.6	114.6	115.8	108.8	126.5	75.7	106.9	106.9	107.3	105.3	116.7	72.4
	85	121.3	121.3	121.2	121.2	126.7	101.8	113.2	113.2	113.1	113.1	116.8	98.3
	90	127.6	127.6	127.6	127.6	127.6	127.6	119.4	119.4	119.4	119.4	119.3	119.3
7350	75	109.7	109.7	116.1	101.0	127.0	52.7	102.2	102.2	107.1	97.5	117.1	49.6
	80	116.5	116.5	117.0	113.9	127.4	78.5	108.6	108.6	108.6	108.6	117.4	75.2
	85	123.3	123.3	123.3	123.3	127.6	106.3	115.0	115.0	115.0	115.0	117.6	102.8
	90	129.5	129.5	129.5	129.5	129.4	129.4	120.7	120.7	120.6	120.6	120.6	120.6
8030	75	111.2	111.2	116.9	106.5	127.8	54.1	103.6	103.6	107.8	103.0	117.7	51.0
	80	118.2	118.2	118.1	118.1	128.1	81.2	110.1	110.1	110.0	110.0	118.0	77.9
	85	125.1	125.1	125.1	125.1	128.2	110.7	116.5	116.5	116.5	116.5	118.3	107.2
	90	131.2	131.2	131.2	131.2	131.1	131.1	121.9	121.9	121.9	121.9	121.9	121.9

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 36. Gross cooling capacities (kW) one compressor - TTA201F condensing unit with TWE201E air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
10194	24	36.4	34.8	40.0	29.0	44.0	16.9	34.7	34.0	38.0	28.3	41.7	16.2	32.9	32.9	35.8	27.5	39.3	15.4
	27	38.2	38.2	40.0	33.0	44.0	23.8	36.6	36.6	38.0	32.1	41.8	23.0	34.9	34.9	35.9	31.3	39.4	22.2
	30	40.4	40.4	40.5	40.2	44.1	31.1	38.8	38.8	38.7	38.7	41.9	30.3	36.9	36.9	36.9	36.9	39.4	29.5
	33	42.7	42.7	42.6	42.6	44.2	38.1	40.9	40.9	40.9	40.9	41.9	37.3	38.9	38.9	38.9	38.9	39.6	36.4
11349	24	36.9	36.6	40.4	30.8	44.4	17.4	35.3	35.3	38.4	29.7	42.1	16.6	33.5	33.5	36.2	28.9	39.6	15.8
	27	39.1	39.1	40.5	34.5	44.5	24.7	37.4	37.4	38.4	33.7	42.2	23.9	35.6	35.6	36.3	32.8	39.7	23.1
	30	41.4	41.4	41.4	41.4	44.6	32.6	39.6	39.6	39.6	39.6	42.2	31.7	37.7	37.7	37.7	37.7	39.8	30.8
	33	43.6	43.6	43.6	43.6	44.7	40.2	41.8	41.8	41.8	41.8	42.4	39.3	39.7	39.7	39.7	39.7	40.0	38.4
12488	24	37.6	37.6	40.8	32.2	44.8	17.7	35.9	35.9	38.7	31.4	42.5	16.3	34.1	34.1	36.5	30.6	39.9	16.3
	27	39.9	39.9	40.9	36.1	44.9	25.6	38.1	38.1	38.8	35.2	42.5	24.8	36.2	36.2	36.6	34.3	40.0	23.9
	30	42.2	42.2	42.2	42.2	44.9	33.9	40.4	40.4	40.3	40.3	42.6	33.0	38.3	38.3	38.3	38.3	40.1	32.1
	33	44.5	44.5	44.5	44.5	45.1	42.1	42.6	42.6	42.6	42.6	42.8	41.3	40.4	40.4	40.4	40.4	40.4	40.4
13643	24	38.2	38.2	41.1	33.9	45.1	17.3	36.5	36.5	39.0	33.0	42.5	17.3	34.6	34.6	36.7	32.1	40.2	16.7
	27	40.5	40.5	41.2	37.5	45.2	26.4	38.7	38.7	39.2	36.7	42.9	25.6	36.8	36.8	37.0	35.8	40.3	24.7
	30	42.9	42.9	42.9	42.9	45.2	35.2	41.0	41.0	41.0	41.0	42.9	34.4	38.9	38.9	38.9	38.9	40.3	33.4
	33	45.2	45.2	45.2	45.2	45.5	44.0	43.2	43.2	43.2	43.2	43.4	43.2	40.9	40.9	40.9	40.9	40.9	40.9

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
10194	24	31.0	31.0	33.5	26.4	36.7	14.6	29.0	29.0	30.9	25.4	33.9	13.7
	27	32.9	32.9	33.6	30.3	36.8	21.3	30.8	30.8	31.1	29.3	33.9	20.4
	30	34.8	34.8	34.8	34.8	36.8	28.4	32.6	32.6	32.5	32.5	34.0	27.4
	33	36.7	36.7	36.7	36.7	37.1	35.5	34.3	34.3	34.3	34.3	34.3	34.3
11349	24	31.6	31.6	33.8	28.0	37.0	15.0	29.5	29.5	31.2	27.0	34.1	14.1
	27	33.6	33.6	33.9	31.9	37.1	22.2	31.3	31.3	31.4	30.9	34.2	21.2
	30	35.5	35.5	35.5	35.5	37.1	29.8	33.2	33.2	33.2	33.2	34.2	28.8
	33	37.4	37.4	37.4	37.4	37.4	37.4	35.0	35.0	35.0	35.0	35.0	35.0
12488	24	32.1	32.1	34.0	29.6	37.2	15.4	30.0	30.0	31.4	28.6	34.3	14.5
	27	34.1	34.1	34.3	33.4	37.3	23.0	31.8	31.8	31.8	31.8	34.4	22.0
	30	36.1	36.1	36.1	36.1	37.4	31.2	33.7	33.7	33.7	33.7	34.5	30.1
	33	38.0	38.0	37.9	37.9	37.9	37.9	35.4	35.4	35.4	35.4	35.3	35.3
13643	24	32.6	32.6	34.2	31.2	37.4	15.9	30.4	30.4	31.6	30.2	34.5	15.0
	27	34.6	34.6	34.6	34.6	37.5	23.8	32.3	32.3	32.3	32.3	34.6	22.8
	30	36.7	36.7	36.7	36.7	37.6	32.4	34.2	34.2	34.1	34.1	34.7	31.4
	33	38.4	38.4	38.4	38.4	38.4	38.4	35.7	35.7	35.7	35.7	35.7	35.7

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 37. Gross cooling capacities (MBH) both compressors - TTA201F condensing unit with TWE201E air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
6000	75	207.6	165.8	229.4	135.5	253.0	92.9	198.0	161.1	218.7	131.1	241.0	88.7	187.6	156.1	207.1	126.4	228.1	84.1
	80	208.9	194.2	229.7	158.2	253.0	121.9	199.8	189.6	219.1	153.6	241.1	117.3	189.9	184.7	207.5	148.6	228.2	112.4
	85	215.6	215.6	230.0	186.4	253.2	149.9	207.4	207.4	219.3	181.7	241.2	145.2	198.4	198.4	207.9	176.7	228.4	140.3
	90	226.5	226.5	231.6	214.4	253.5	177.8	218.0	218.0	221.4	209.7	241.5	173.1	208.6	208.6	210.5	204.8	228.7	168.2
6680	75	211.3	173.5	233.2	141.7	256.9	94.7	201.4	168.8	222.2	137.3	244.6	90.3	190.5	163.5	210.2	132.6	231.2	85.7
	80	213.6	204.5	233.7	165.2	257.0	125.7	204.2	199.9	222.6	160.5	244.6	121.1	193.8	193.8	210.7	155.5	231.3	116.1
	85	222.3	222.3	234.0	195.9	257.2	156.2	213.7	213.7	223.0	191.1	244.9	151.5	204.2	204.2	211.3	185.7	231.6	146.6
	90	233.6	233.6	236.6	226.4	257.5	186.6	224.6	224.6	226.3	221.7	245.2	181.8	214.8	214.8	214.7	214.7	231.9	176.8
7350	75	214.5	180.9	236.5	148.0	260.2	96.3	204.2	175.8	225.1	143.5	247.5	91.8	193.4	170.6	212.9	138.7	233.9	86.9
	80	217.8	214.5	237.0	172.0	260.3	129.4	207.9	207.9	225.6	167.2	247.6	124.7	198.5	198.5	213.3	162.1	234.0	119.7
	85	228.2	228.2	237.4	204.6	260.6	162.3	219.2	219.2	226.3	199.8	247.9	157.5	209.3	209.3	214.5	194.6	234.3	152.5
	90	239.9	239.9	241.3	238.1	260.9	195.0	230.5	230.5	230.3	230.3	248.2	190.2	220.2	220.2	220.1	220.1	234.6	185.2
8030	75	217.2	187.6	239.3	154.1	263.1	97.7	207.0	182.7	227.7	149.6	250.1	93.0	196.0	177.5	215.1	144.8	236.0	88.8
	80	221.5	221.5	239.8	178.4	263.1	132.9	212.5	212.5	228.2	173.6	250.1	128.1	202.7	202.7	215.6	168.4	236.2	123.1
	85	233.4	233.4	240.7	213.3	263.5	168.1	224.0	224.0	229.4	208.4	250.5	163.3	213.8	213.8	217.4	203.2	236.6	158.3
	90	245.4	245.4	245.3	245.3	263.8	203.1	235.6	235.6	235.5	235.5	250.8	198.3	224.9	224.9	224.8	224.8	237.0	193.2

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
6000	75	176.3	150.8	194.5	121.4	214.0	79.2	163.9	144.7	180.6	115.9	198.6	73.7
	80	178.8	178.8	194.9	143.3	214.2	107.2	168.2	168.2	181.0	137.5	198.7	101.6
	85	188.6	188.6	195.4	171.1	214.4	135.1	177.5	177.5	182.0	165.2	199.0	129.4
	90	198.3	198.3	198.2	198.2	214.7	162.9	186.8	186.8	186.7	186.7	199.3	157.2
6680	75	179.1	158.0	197.3	127.5	216.8	80.5	166.6	152.0	183.0	122.0	200.9	75.4
	80	183.8	183.8	197.7	150.1	216.9	110.9	172.7	172.7	183.4	144.3	201.1	105.2
	85	193.9	193.9	198.7	180.3	217.2	141.3	182.2	182.2	185.0	174.3	201.4	135.5
	90	204.0	204.0	203.9	203.9	217.5	171.5	191.8	191.8	191.7	191.7	201.8	165.7
7350	75	181.8	165.1	199.6	133.6	219.0	82.3	169.1	159.1	185.0	128.0	202.8	76.9
	80	188.1	188.1	200.1	156.6	219.2	114.4	176.4	176.4	185.4	150.7	203.1	108.7
	85	198.5	198.5	201.7	189.1	219.6	147.2	186.4	186.4	187.8	183.1	203.4	141.4
	90	208.9	208.9	208.8	208.8	219.9	179.8	196.2	196.2	196.1	196.1	203.9	173.5
8030	75	184.2	171.9	201.6	139.6	221.0	83.8	171.3	165.9	186.7	134.0	204.4	78.4
	80	191.9	191.9	202.1	162.9	221.2	117.8	179.9	179.9	187.1	156.5	204.8	112.1
	85	202.6	202.6	204.5	197.6	221.6	152.9	190.0	190.0	189.9	189.9	205.2	147.1
	90	213.2	213.2	213.1	213.1	222.0	187.2	200.0	200.0	200.0	200.0	206.0	181.2

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 38. Gross cooling capacities (kW) both compressors - TTA201F condensing unit with TWE201E air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
10194	24	60.8	48.6	67.2	39.7	74.2	27.2	58.0	47.2	64.1	38.4	70.6	26.0	55.0	45.8	60.7	37.0	66.9	24.6
	27	61.2	56.9	67.3	46.4	74.2	35.7	58.5	55.6	64.2	45.0	70.7	34.4	55.7	54.1	60.8	43.5	66.9	32.9
	30	63.2	63.2	67.4	54.6	74.2	43.9	60.8	60.8	64.3	53.2	70.7	42.6	58.2	58.2	60.9	51.8	66.9	41.1
	33	66.4	66.4	67.9	62.8	74.3	52.1	63.9	63.9	64.9	61.5	70.8	50.7	61.1	61.1	61.7	60.0	67.0	49.3
11349	24	61.9	50.9	68.4	41.5	75.3	27.7	59.0	49.5	65.1	40.2	71.7	26.5	55.8	47.9	61.6	38.9	67.8	25.1
	27	62.6	59.9	68.5	48.4	75.3	36.8	59.8	58.6	65.2	47.0	71.7	35.5	56.8	56.8	61.7	45.6	67.8	34.0
	30	65.1	65.1	68.6	57.4	75.4	45.8	62.6	62.6	65.4	56.0	71.8	44.4	59.9	59.9	61.9	54.4	67.9	43.0
	33	68.5	68.5	69.3	66.4	75.5	54.7	65.8	65.8	66.3	65.0	71.8	53.3	62.9	62.9	62.9	62.9	68.0	51.8
12488	24	62.9	53.0	69.3	43.4	76.3	28.2	59.8	51.5	66.0	42.0	72.5	26.9	56.7	50.0	62.4	40.6	68.5	25.5
	27	63.8	62.9	69.5	50.4	76.3	37.9	60.9	60.9	66.1	49.0	72.6	36.5	58.2	58.2	62.5	47.5	68.6	35.1
	30	66.9	66.9	69.6	60.0	76.4	47.6	64.2	64.2	66.3	58.5	72.7	46.2	61.3	61.3	62.9	57.0	68.7	44.7
	33	70.3	70.3	70.7	69.8	76.5	57.1	67.5	67.5	67.5	67.5	72.7	55.7	64.5	64.5	64.5	64.5	68.8	54.3
13643	24	63.7	55.0	70.1	45.2	77.1	28.6	60.7	53.5	66.7	43.8	73.3	27.3	57.4	52.0	63.1	42.4	69.2	26.0
	27	64.9	64.9	70.3	52.3	77.1	38.9	62.3	62.3	66.9	50.9	73.3	37.6	59.4	59.4	63.2	49.4	69.2	36.1
	30	68.4	68.4	70.5	62.5	77.2	49.3	65.7	65.7	67.2	61.1	73.4	47.9	62.7	62.7	63.7	59.5	69.3	46.4
	33	71.9	71.9	71.9	71.9	77.3	59.5	69.0	69.0	69.0	69.0	73.5	58.1	65.9	65.9	65.9	65.9	69.5	56.6

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
10194	24	51.7	44.2	57.0	35.6	62.7	23.2	48.0	42.4	52.9	34.0	58.2	21.6
	27	52.4	52.4	57.1	42.0	62.8	31.4	49.3	49.3	53.1	40.3	58.2	29.8
	30	55.3	55.3	57.3	50.1	62.8	39.6	52.0	52.0	53.3	48.4	58.3	37.9
	33	58.1	58.1	58.1	58.1	62.9	47.7	54.7	54.7	54.7	54.7	58.4	46.1
11349	24	52.5	46.3	57.8	37.4	63.5	23.6	48.8	44.6	53.6	35.7	58.9	22.1
	27	53.9	53.9	57.9	44.0	63.6	32.5	50.6	50.6	53.8	42.3	58.9	30.8
	30	56.8	56.8	58.2	52.8	63.7	41.4	53.4	53.4	54.2	51.1	59.0	39.7
	33	59.8	59.8	59.8	59.8	63.8	50.3	56.2	56.2	56.2	56.2	59.1	48.6
12488	24	53.3	48.4	58.5	39.1	64.2	24.1	49.5	46.6	54.2	37.5	59.4	22.5
	27	55.1	55.1	58.6	45.9	64.3	33.5	51.7	51.7	54.3	44.2	59.5	31.9
	30	58.2	58.2	59.1	55.4	64.4	43.1	54.6	54.6	55.0	53.7	59.6	41.4
	33	61.2	61.2	61.2	61.2	64.5	52.7	57.5	57.5	57.5	57.5	59.8	50.8
13643	24	54.0	50.4	59.1	40.9	64.8	24.6	50.2	48.6	54.7	39.3	59.9	23.0
	27	56.2	56.2	59.2	47.8	64.8	34.5	52.7	52.7	54.8	45.9	60.0	32.8
	30	59.4	59.4	59.9	57.9	65.0	44.8	55.7	55.7	55.7	55.7	60.1	43.1
	33	62.5	62.5	62.4	62.4	65.1	54.9	58.6	58.6	58.6	58.6	60.4	53.1

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 39. Gross cooling capacities (MBH) one compressor - TTA251F condensing unit with TWE251E air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
7500	75	150.7	150.7	161.0	117.1	173.4	67.9	143.4	143.4	152.1	113.5	163.5	64.7	135.7	135.7	142.8	109.8	153.3	60.9
	80	160.0	160.0	163.0	148.0	176.9	105.7	152.3	152.3	154.2	144.4	166.8	102.3	144.1	144.1	145.0	140.6	155.3	97.3
	85	169.5	169.5	169.5	169.5	178.1	138.3	161.3	161.3	161.3	161.3	168.0	134.6	152.6	152.6	152.6	152.6	157.6	130.8
	90	179.1	179.1	179.1	179.1	180.7	174.2	170.4	170.4	170.3	170.3	170.9	170.5	161.1	161.1	161.1	161.1	161.1	161.1
8350	75	153.7	153.7	162.5	116.7	174.3	69.1	146.2	146.2	153.4	113.0	164.8	66.3	138.2	138.2	143.9	109.2	153.8	62.7
	80	163.4	163.4	165.0	156.4	176.8	109.9	155.4	155.4	156.1	152.7	166.8	106.1	146.8	146.8	146.7	146.7	156.1	102.9
	85	173.2	173.2	173.1	173.1	179.8	145.8	164.6	164.6	164.6	164.6	169.6	142.0	155.5	155.5	155.5	155.5	159.0	138.1
	90	183.0	183.0	183.0	183.0	182.9	182.9	173.9	173.9	173.9	173.9	173.8	173.8	164.3	164.3	164.2	164.2	164.1	164.1
9200	75	156.3	156.3	163.7	121.3	175.4	71.0	148.5	148.5	154.5	117.6	164.8	67.0	140.2	140.2	144.9	113.7	154.1	63.5
	80	166.2	166.2	166.8	164.5	178.1	113.8	157.9	157.9	157.8	157.8	167.7	110.9	149.1	149.1	149.0	149.0	157.0	107.3
	85	176.2	176.2	176.2	176.2	181.3	153.0	167.3	167.3	167.3	167.3	170.9	149.2	157.9	157.9	157.9	157.9	160.3	145.3
	90	186.3	186.3	186.3	186.3	186.2	186.2	176.8	176.8	176.8	176.8	176.7	176.7	166.8	166.8	166.8	166.8	166.8	166.8
10050	75	158.5	158.5	164.8	125.7	175.3	71.6	150.4	150.4	155.5	122.0	165.1	68.2	141.9	141.9	145.8	118.1	154.3	64.4
	80	168.6	168.6	168.5	168.5	178.9	119.1	160.0	160.0	159.9	159.9	168.4	115.7	151.0	151.0	150.9	150.9	157.6	112.6
	85	178.8	178.8	178.8	178.8	182.6	159.9	169.6	169.6	169.6	169.6	172.2	156.1	160.0	160.0	160.0	160.0	161.4	152.1
	90	189.1	189.1	189.1	189.1	189.0	189.0	179.3	179.3	179.3	179.3	179.3	179.3	169.0	169.0	169.0	169.0	169.0	169.0

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
7500	75	127.4	127.4	133.0	106.0	143.1	57.9	118.4	118.4	122.5	101.8	131.2	53.6
	80	135.4	135.4	135.3	135.3	144.4	93.9	125.9	125.9	125.8	125.8	132.7	91.1
	85	143.3	143.3	143.3	143.3	146.8	126.8	133.3	133.3	133.3	133.3	135.3	122.5
	90	151.3	151.3	151.3	151.3	151.2	151.2	140.6	140.6	140.6	140.6	140.6	140.6
8350	75	129.6	129.6	134.0	105.2	143.0	59.2	120.3	120.3	123.4	100.9	131.5	54.9
	80	137.7	137.7	137.7	137.7	145.2	99.2	127.9	127.9	127.9	127.9	133.4	96.1
	85	145.9	145.9	145.8	145.8	148.1	134.1	135.4	135.4	135.4	135.4	136.5	129.7
	90	154.0	154.0	153.9	153.9	153.9	153.9	142.9	142.9	142.9	142.9	142.9	142.9
9200	75	131.4	131.4	134.9	109.7	143.2	59.8	121.8	121.8	124.2	105.3	131.7	57.0
	80	139.7	139.7	139.6	139.6	145.8	104.1	129.5	129.5	129.5	129.5	134.0	100.6
	85	148.0	148.0	148.0	148.0	149.2	141.1	137.2	137.2	137.2	137.2	137.6	136.6
	90	156.2	156.2	156.2	156.2	156.2	156.2	144.8	144.8	144.8	144.8	144.7	144.7
10050	75	132.9	132.9	135.6	114.0	143.4	62.1	123.1	123.1	124.9	109.5	131.7	55.4
	80	141.4	141.4	141.3	141.3	146.3	108.9	131.0	131.0	130.9	130.9	134.5	105.0
	85	149.8	149.8	149.7	149.7	150.3	147.9	138.7	138.7	138.7	138.7	138.7	138.7
	90	158.1	158.1	158.1	158.1	158.1	158.1	146.4	146.4	146.3	146.3	146.3	146.3

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 40. Gross cooling capacities (kW) one compressor - TTA251F condensing unit with TWE251E air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°F) 30 Entering Wet Bulb (°F) 16 kW	16 SHC	19 kW	19 SHC	22 kW	22 SHC	Ambient Temperature (°F) 35 Entering Wet Bulb (°F) 16 kW	16 SHC	19 kW	19 SHC	22 kW	22 SHC	Ambient Temperature (°F) 40 Entering Wet Bulb (°F) 16 kW	16 SHC	19 kW	19 SHC	22 kW	22 SHC
12742	24	44.2	44.2	47.2	34.3	50.8	19.9	42.0	42.0	44.6	33.3	47.9	19.0	39.8	39.8	41.8	32.2	44.9	17.9
	27	46.9	46.9	47.8	43.4	51.8	31.0	44.6	44.6	45.2	42.3	48.9	30.0	42.2	42.2	42.5	41.2	45.5	28.5
	30	49.7	49.7	49.7	49.7	52.2	40.5	47.3	47.3	47.3	47.3	49.2	39.4	44.7	44.7	44.7	44.7	46.2	38.3
	33	52.5	52.5	52.5	52.5	52.9	51.1	49.9	49.9	49.9	49.9	50.1	50.0	47.2	47.2	47.2	47.2	47.2	47.2
14187	24	45.1	45.1	47.6	34.2	51.1	20.2	42.8	42.8	45.0	33.1	48.3	19.4	40.5	40.5	42.2	32.0	45.1	18.4
	27	47.9	47.9	48.3	45.8	51.8	32.2	45.5	45.5	45.7	44.8	48.9	31.1	43.0	43.0	43.0	43.0	45.7	30.2
	30	50.7	50.7	50.7	50.7	52.7	42.7	48.2	48.2	48.2	48.2	49.7	41.6	45.6	45.6	45.6	45.6	46.6	40.5
	33	53.6	53.6	53.6	53.6	53.6	53.6	51.0	51.0	51.0	51.0	50.9	50.9	48.1	48.1	48.1	48.1	48.1	48.1
15631	24	45.8	45.8	48.0	35.5	51.4	20.8	43.5	43.5	45.3	34.5	48.3	19.6	41.1	41.1	42.5	33.3	45.2	18.6
	27	48.7	48.7	48.9	48.2	52.2	33.4	46.3	46.3	46.2	46.2	49.1	32.5	43.7	43.7	43.7	43.7	46.0	31.4
	30	51.6	51.6	51.6	51.6	53.1	44.8	49.0	49.0	49.0	49.0	50.1	43.7	46.3	46.3	46.3	46.3	47.0	42.6
	33	54.6	54.6	54.6	54.6	54.6	54.6	51.8	51.8	51.8	51.8	51.8	51.8	48.9	48.9	48.9	48.9	48.9	48.9
17075	24	46.4	46.4	48.3	36.8	51.4	21.0	44.1	44.1	45.6	35.7	48.4	20.0	41.6	41.6	42.7	34.6	45.2	18.9
	27	49.4	49.4	49.4	49.4	52.4	34.9	46.9	46.9	46.9	46.9	49.4	33.9	44.2	44.2	44.2	44.2	46.2	33.0
	30	52.4	52.4	52.4	52.4	53.5	46.9	49.7	49.7	49.7	49.7	50.5	45.7	46.9	46.9	46.9	46.9	47.3	44.6
	33	55.4	55.4	55.4	55.4	55.4	55.4	52.6	52.6	52.5	52.5	52.5	52.5	49.5	49.5	49.5	49.5	49.5	49.5

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°F) 45 Entering Wet Bulb (°F) 16 kW	16 SHC	19 kW	19 SHC	22 kW	22 SHC	Ambient Temperature (°F) 52 Entering Wet Bulb (°F) 16 kW	16 SHC	19 kW	19 SHC	22 kW	22 SHC
12742	24	37.3	37.3	39.0	31.1	42.0	17.0	34.7	34.7	35.9	29.8	38.4	15.7
	27	39.7	39.7	39.7	39.7	42.3	27.5	36.9	36.9	36.9	36.9	38.9	26.7
	30	42.0	42.0	42.0	42.0	43.0	37.2	39.1	39.1	39.1	39.1	39.7	35.9
	33	44.3	44.3	44.3	44.3	44.3	44.3	41.2	41.2	41.2	41.2	41.2	41.2
14187	24	38.0	38.0	39.3	30.8	41.9	17.4	35.2	35.2	36.2	29.6	38.5	16.1
	27	40.4	40.4	40.3	40.3	42.6	29.1	37.5	37.5	37.5	37.5	39.1	28.2
	30	42.7	42.7	42.7	42.7	43.4	39.3	39.7	39.7	39.7	39.7	40.0	38.0
	33	45.1	45.1	45.1	45.1	45.1	45.1	41.9	41.9	41.9	41.9	41.9	41.9
15631	24	38.5	38.5	39.5	32.1	42.0	17.5	35.7	35.7	36.4	30.9	38.6	16.7
	27	40.9	40.9	40.9	40.9	42.7	30.5	38.0	38.0	38.0	38.0	39.3	29.5
	30	43.4	43.4	43.4	43.4	43.7	41.4	40.2	40.2	40.2	40.2	40.3	40.0
	33	45.8	45.8	45.8	45.8	45.8	45.8	42.4	42.4	42.4	42.4	42.4	42.4
17075	24	39.0	39.0	39.7	33.4	42.0	18.2	36.1	36.1	36.6	32.1	38.6	16.2
	27	41.4	41.4	41.4	41.4	42.9	31.9	38.4	38.4	38.4	38.4	39.4	30.8
	30	43.9	43.9	43.9	43.9	44.0	43.3	40.7	40.7	40.6	40.6	40.6	40.6
	33	46.3	46.3	46.3	46.3	46.3	46.3	42.9	42.9	42.9	42.9	42.9	42.9

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 41. Gross cooling capacities (MBH) both compressors - TTA251F condensing unit with TWE251E air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
7500	75	245.2	204.0	269.3	157.2	294.3	108.6	232.8	197.8	255.5	151.4	278.6	103.2	219.7	191.3	240.8	145.3	262.2	97.5
	80	248.6	241.3	270.2	194.5	294.9	146.2	236.8	235.3	256.4	188.6	279.4	140.4	224.5	224.5	241.7	182.4	263.2	134.5
	85	259.4	259.4	270.9	230.3	295.9	183.1	248.4	248.4	257.3	224.2	280.4	177.3	236.5	236.5	243.0	217.7	264.2	171.3
	90	272.3	272.3	274.6	267.2	296.6	219.8	260.8	260.8	261.6	261.2	281.2	213.9	248.4	248.4	248.4	248.4	264.6	206.8
8350	75	249.4	213.8	273.4	163.2	298.0	110.4	236.8	207.6	259.2	157.3	281.9	104.9	223.3	201.0	244.1	151.1	265.0	99.0
	80	253.6	253.6	274.3	203.9	299.0	151.3	242.5	242.5	260.1	197.9	283.1	145.5	230.5	230.5	244.5	190.5	266.5	139.4
	85	267.0	267.0	275.5	242.7	300.1	191.6	255.4	255.4	261.6	236.4	284.2	185.7	243.0	243.0	247.0	229.9	267.5	179.6
	90	280.3	280.3	280.2	280.2	300.8	231.7	268.2	268.2	268.0	268.0	284.5	224.4	255.1	255.1	255.0	255.0	267.9	217.8
9200	75	253.1	223.4	276.8	169.0	301.1	112.2	240.2	217.1	262.2	163.0	284.5	106.4	226.5	210.4	246.7	156.8	267.3	100.4
	80	259.7	259.7	277.2	211.9	302.3	156.2	248.1	248.1	262.7	205.5	286.1	150.3	235.8	235.8	247.3	198.8	269.0	144.2
	85	273.5	273.5	279.6	254.6	303.4	199.8	261.4	261.4	265.4	248.3	287.1	193.9	248.4	248.4	250.6	241.6	270.1	187.7
	90	287.2	287.2	287.1	287.1	303.8	241.5	274.5	274.5	274.3	274.3	287.7	235.1	261.0	261.0	260.9	260.9	271.0	228.5
10050	75	256.4	232.5	279.6	174.5	303.6	113.7	243.3	226.2	264.7	168.4	286.8	107.8	229.4	219.4	249.0	162.2	269.3	101.8
	80	265.1	265.1	280.3	220.0	305.2	160.9	253.2	253.2	265.4	213.6	288.6	154.9	240.3	240.3	249.8	206.8	271.2	148.8
	85	279.2	279.2	283.3	266.1	306.3	207.7	266.6	266.6	268.9	259.7	289.7	201.7	253.2	253.2	254.0	253.0	271.8	194.0
	90	293.3	293.3	293.1	293.1	307.0	252.0	280.0	280.0	280.0	280.0	290.7	245.5	266.0	266.0	265.9	265.9	273.6	238.9

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
7500	75	205.6	184.4	225.1	138.9	244.6	91.5	190.5	177.0	208.1	138.1	225.7	85.1
	80	212.1	212.1	225.6	174.9	246.0	128.2	198.5	198.5	208.7	167.5	227.3	121.6
	85	223.6	223.6	227.8	210.9	247.0	165.0	209.4	209.4	211.4	203.5	228.3	158.2
	90	235.0	235.0	234.9	234.9	247.4	199.9	220.2	220.2	220.1	220.1	229.0	192.6
8350	75	209.0	194.1	228.0	144.7	247.1	92.7	193.7	186.6	210.6	137.8	227.8	86.1
	80	217.6	217.6	228.6	183.5	248.7	133.1	203.4	203.4	211.3	176.0	229.6	126.5
	85	229.4	229.4	231.5	223.0	249.8	173.3	214.5	214.5	214.4	214.4	230.2	165.1
	90	241.1	241.1	241.0	241.0	250.6	210.9	225.5	225.5	225.5	225.5	231.8	203.5
9200	75	212.0	203.3	230.3	150.2	249.1	94.1	196.6	195.8	212.6	143.3	229.5	87.4
	80	222.3	222.3	231.1	191.7	251.0	137.9	207.5	207.5	213.7	184.1	231.5	131.1
	85	234.3	234.3	235.0	234.7	251.5	179.8	218.9	218.9	218.8	218.8	232.2	172.3
	90	246.2	246.2	246.2	246.2	253.3	221.5	230.0	230.0	230.0	230.0	234.3	214.0
10050	75	214.8	212.3	232.3	155.6	250.8	95.4	199.3	199.3	213.7	146.9	230.9	88.7
	80	226.4	226.4	233.3	199.7	252.9	142.5	211.1	211.1	215.7	192.0	233.1	135.7
	85	238.6	238.6	238.5	238.5	253.5	186.9	222.6	222.6	222.5	222.5	233.9	179.3
	90	250.7	250.7	250.7	250.7	255.7	231.8	233.9	233.9	233.9	233.9	236.5	224.2

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. MBH = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 42. Gross cooling capacities (kW) both compressors - TTA251F condensing unit with TWE251E air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°F) 30 Entering Wet Bulb (°F) 16 kW	16 SHC	19 kW	19 SHC	22 kW	22 SHC	Ambient Temperature (°F) 35 Entering Wet Bulb (°F) 16 kW	16 SHC	19 kW	19 SHC	22 kW	22 SHC	Ambient Temperature (°F) 40 Entering Wet Bulb (°F) 16 kW	16 SHC	19 kW	19 SHC	22 kW	22 SHC
12742	24	71.9	59.8	78.9	46.1	86.2	31.8	68.2	58.0	74.9	44.4	81.7	30.2	64.4	56.1	70.6	42.6	76.8	28.6
	27	72.8	70.7	79.2	57.0	86.4	42.8	69.4	68.9	75.1	55.3	81.9	41.1	65.8	65.8	70.8	53.5	77.1	39.4
	30	76.0	76.0	79.4	67.5	86.7	53.7	72.8	72.8	75.4	65.7	82.2	52.0	69.3	69.3	71.2	63.8	77.4	50.2
	33	79.8	79.8	80.5	78.3	86.9	64.4	76.4	76.4	76.7	76.5	82.4	62.7	72.8	72.8	72.8	72.8	77.5	60.6
14187	24	73.1	62.7	80.1	47.8	87.3	32.4	69.4	60.8	76.0	46.1	82.6	30.7	65.4	58.9	71.5	44.3	77.7	29.0
	27	74.3	74.3	80.4	59.8	87.6	44.3	71.1	71.1	76.2	58.0	83.0	42.6	67.6	67.6	71.7	55.8	78.1	40.9
	30	78.3	78.3	80.7	71.1	87.9	56.2	74.9	74.9	76.7	69.3	83.3	54.4	71.2	71.2	72.4	67.4	78.4	52.6
	33	82.1	82.1	82.1	82.1	88.2	67.9	78.6	78.6	78.6	78.6	83.4	65.8	74.8	74.8	74.7	74.7	78.5	63.8
15631	24	74.2	65.5	81.1	49.5	88.2	32.9	70.4	63.6	76.8	47.8	83.4	31.2	66.4	61.7	72.3	45.9	78.3	29.4
	27	76.1	76.1	81.3	62.1	88.6	45.8	72.7	72.7	77.0	60.2	83.8	44.0	69.1	69.1	72.5	58.3	78.8	42.3
	30	80.2	80.2	81.9	74.6	88.9	58.6	76.6	76.6	77.8	72.8	84.1	56.8	72.8	72.8	73.4	70.8	79.2	55.0
	33	84.2	84.2	84.1	84.1	89.0	70.8	80.5	80.5	80.4	80.4	84.3	68.9	76.5	76.5	76.5	76.5	79.4	67.0
17075	24	75.1	68.1	82.0	51.1	89.0	33.3	71.3	66.3	77.6	49.4	84.0	31.6	67.2	64.3	73.0	47.5	78.9	29.8
	27	77.7	77.7	82.1	64.5	89.4	47.1	74.2	74.2	77.8	62.6	84.6	45.4	70.4	70.4	73.2	60.6	79.5	43.6
	30	81.8	81.8	83.0	78.0	89.8	60.9	78.1	78.1	78.8	76.1	84.9	59.1	74.2	74.2	74.4	74.2	79.6	56.9
	33	85.9	85.9	85.9	85.9	90.0	73.9	82.1	82.1	82.1	82.1	85.2	72.0	77.9	77.9	77.9	77.9	80.2	70.0

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°F) 45 Entering Wet Bulb (°F) 16 kW	16 SHC	19 kW	19 SHC	22 kW	22 SHC	Ambient Temperature (°F) 52 Entering Wet Bulb (°F) 16 kW	16 SHC	19 kW	19 SHC	22 kW	22 SHC
12742	24	60.3	54.0	66.0	40.7	71.7	26.8	55.8	51.9	61.0	40.5	66.1	25.0
	27	62.2	62.2	66.1	51.3	72.1	37.6	58.2	58.2	61.2	49.1	66.6	35.6
	30	65.5	65.5	66.8	61.8	72.4	48.3	61.4	61.4	62.0	59.7	66.9	46.4
	33	68.9	68.9	68.9	68.9	72.5	58.6	64.5	64.5	64.5	64.5	67.1	56.4
14187	24	61.3	56.9	66.8	42.4	72.4	27.2	56.8	54.7	61.7	40.4	66.8	25.2
	27	63.8	63.8	67.0	53.8	72.9	39.0	59.6	59.6	61.9	51.6	67.3	37.1
	30	67.2	67.2	67.9	65.3	73.2	50.8	62.9	62.9	62.8	62.8	67.5	48.4
	33	70.6	70.6	70.6	70.6	73.4	61.8	66.1	66.1	66.1	66.1	67.9	59.6
15631	24	62.1	59.6	67.5	44.0	73.0	27.6	57.6	57.4	62.3	42.0	67.3	25.6
	27	65.2	65.2	67.7	56.2	73.6	40.4	60.8	60.8	62.6	54.0	67.9	38.4
	30	68.7	68.7	68.9	68.8	73.7	52.7	64.1	64.1	64.1	64.1	68.0	50.5
	33	72.2	72.2	72.1	72.1	74.2	64.9	67.4	67.4	67.4	67.4	68.7	62.7
17075	24	63.0	62.2	68.1	45.6	73.5	28.0	58.4	58.4	62.6	43.1	67.7	26.0
	27	66.3	66.3	68.4	58.5	74.1	41.8	61.9	61.9	63.2	56.3	68.3	39.8
	30	69.9	69.9	69.9	69.9	74.3	54.8	65.2	65.2	65.2	65.2	68.5	52.5
	33	73.5	73.5	73.5	73.5	74.9	67.9	68.6	68.6	68.5	68.5	69.3	65.7

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain net cooling, subtract indoor fan heat.
2. kW = Total Gross Capacity, SHC = Sensible Heat Capacity

Table 43. Gross cooling capacities (MBH) TTA061G condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	242.3	247.3	252.6	258.1	263.6	269.1
	Capacity (Btuh/1000)	55.0	60.7	66.8	73.4	80.2	87.3
	Unit Power (kW)	3.0	3.1	3.1	3.2	3.2	3.3
75	Head Press (psig)	279.2	284.5	290.0	295.6	301.3	306.8
	Capacity (Btuh/1000)	52.0	57.4	63.2	69.4	75.8	82.4
	Unit Power (kW)	3.4	3.5	3.5	3.6	3.6	3.7
85	Head Press (psig)	319.7	325.2	330.9	336.7	342.5	348.1
	Capacity (Btuh/1000)	48.9	54.0	59.5	65.2	71.3	77.4
	Unit Power (kW)	3.9	4.0	4.0	4.1	4.1	4.2
95	Head Press (psig)	364.0	369.7	375.6	381.5	387.3	392.9
	Capacity (Btuh/1000)	45.6	50.4	55.6	61.0	66.6	72.3
	Unit Power (kW)	4.4	4.5	4.5	4.6	4.6	4.7
105	Head Press (psig)	412.2	418.1	424.0	430.0	435.8	441.4
	Capacity (Btuh/1000)	42.1	46.7	51.5	56.6	61.8	67.1
	Unit Power (kW)	5.0	5.1	5.1	5.2	5.2	5.3
115	Head Press (psig)	464.3	470.3	476.3	482.2	487.9	493.4
	Capacity (Btuh/1000)	38.6	42.9	47.4	52.1	56.9	61.7
	Unit Power (kW)	5.7	5.8	5.8	5.9	5.9	6.0
125	Head Press (psig)	520.5	526.2	532.1	537.8	543.2	548.3
	Capacity (Btuh/1000)	34.9	39.0	43.2	47.5	51.9	56.1
	Unit Power (kW)	6.5	6.6	6.6	6.6	6.7	6.7

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 44. Gross cooling capacities (kW) TTA061G condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1670.6	1705.4	1741.8	1779.4	1817.5	1855.3
	Capacity (kW)	16.1	17.8	19.6	21.5	23.5	25.6
	Unit Power (kW)	3.0	3.1	3.1	3.2	3.2	3.3
23.9	Head Press (kPa)	1925.0	1961.4	1999.3	2038.1	2077.2	2115.6
	Capacity (kW)	15.2	16.8	18.5	20.3	22.2	24.2
	Unit Power (kW)	3.4	3.5	3.5	3.6	3.6	3.7
29.4	Head Press (kPa)	2204.4	2242.3	2281.5	2321.3	2361.2	2400.0
	Capacity (kW)	14.3	15.8	17.4	19.1	20.9	22.7
	Unit Power (kW)	3.9	4.0	4.0	4.1	4.1	4.2
35	Head Press (kPa)	2509.8	2549.1	2589.4	2630.1	2670.3	2709.2
	Capacity (kW)	13.4	14.8	16.3	17.9	19.5	21.2
	Unit Power (kW)	4.4	4.5	4.5	4.6	4.6	4.7
40.6	Head Press (kPa)	2842.0	2882.4	2923.6	2964.7	3005.0	3043.4
	Capacity (kW)	12.4	13.7	15.1	16.6	18.1	19.7
	Unit Power (kW)	5.0	5.1	5.1	5.2	5.2	5.3
46.1	Head Press (kPa)	3201.4	3242.3	3283.7	3324.6	3364.3	3401.7
	Capacity (kW)	11.3	12.6	13.9	15.3	16.7	18.1
	Unit Power (kW)	5.7	5.8	5.8	5.9	5.9	6.0
51.7	Head Press (kPa)	3588.5	3628.3	3668.4	3707.7	3745.4	3780.5
	Capacity (kW)	10.2	11.4	12.7	13.9	15.2	16.5
	Unit Power (kW)	6.5	6.6	6.6	6.6	6.7	6.7

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 45. Gross cooling capacities (MBH) TTA076G condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	261.2	267.8	274.8	282.0	289.3	296.6
	Capacity (Btuh/1000)	68.7	75.4	82.5	90.0	97.8	105.8
	Unit Power (kW)	3.9	4.1	4.2	4.3	4.4	4.6
75	Head Press (psig)	299.1	306.2	313.5	321.0	328.5	336.0
	Capacity (Btuh/1000)	65.0	71.4	78.2	85.3	92.7	100.2
	Unit Power (kW)	4.4	4.5	4.6	4.7	4.9	5.0
85	Head Press (psig)	340.5	347.9	355.5	363.2	371.0	378.6
	Capacity (Btuh/1000)	60.9	67.0	73.5	80.3	87.2	94.3
	Unit Power (kW)	4.9	5.0	5.1	5.2	5.4	5.5
95	Head Press (psig)	385.5	393.2	401.0	408.9	416.8	424.5
	Capacity (Btuh/1000)	56.7	62.5	68.6	75.0	81.6	88.1
	Unit Power (kW)	5.5	5.6	5.7	5.8	5.9	6.1
105	Head Press (psig)	434.3	442.2	450.1	458.1	466.0	473.6
	Capacity (Btuh/1000)	52.4	57.9	63.7	69.7	75.8	81.8
	Unit Power (kW)	6.1	6.2	6.3	6.4	6.6	6.7
115	Head Press (psig)	486.9	494.8	502.7	510.6	518.3	525.6
	Capacity (Btuh/1000)	48.2	53.3	58.7	64.3	69.9	75.4
	Unit Power (kW)	6.8	6.9	7.0	7.2	7.3	7.4
125	Head Press (psig)	543.4	550.7	558.3	565.7	572.9	579.6
	Capacity (Btuh/1000)	44.0	48.7	53.6	58.7	63.7	68.5
	Unit Power (kW)	7.6	7.7	7.8	7.9	8.0	8.1

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 46. Gross cooling capacities (kW) TTA076G condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1800.7	1846.7	1894.8	1944.5	1994.8	2045.1
	Capacity (kW)	20.1	22.1	24.2	26.4	28.7	31.0
	Unit Power (kW)	3.9	4.1	4.2	4.3	4.4	4.6
23.9	Head Press (kPa)	2062.3	2110.9	2161.3	2213.0	2265.2	2316.7
	Capacity (kW)	19.0	20.9	22.9	25.0	27.2	29.4
	Unit Power (kW)	4.4	4.5	4.6	4.7	4.9	5.0
29.4	Head Press (kPa)	2347.6	2398.5	2450.9	2504.4	2557.9	2610.4
	Capacity (kW)	17.9	19.6	21.5	23.5	25.6	27.6
	Unit Power (kW)	4.9	5.0	5.1	5.2	5.4	5.5
35	Head Press (kPa)	2657.9	2710.7	2764.9	2819.5	2873.8	2926.7
	Capacity (kW)	16.6	18.3	20.1	22.0	23.9	25.8
	Unit Power (kW)	5.5	5.6	5.7	5.8	5.9	6.1
40.6	Head Press (kPa)	2994.4	3048.5	3103.6	3158.7	3212.9	3265.2
	Capacity (kW)	15.4	17.0	18.7	20.4	22.2	24.0
	Unit Power (kW)	6.1	6.2	6.3	6.4	6.6	6.7
46.1	Head Press (kPa)	3357.2	3411.5	3466.2	3520.4	3573.4	3623.8
	Capacity (kW)	14.1	15.6	17.2	18.8	20.5	22.1
	Unit Power (kW)	6.8	6.9	7.0	7.2	7.3	7.4
51.7	Head Press (kPa)	3746.7	3797.1	3849.3	3900.6	3950.0	3996.4
	Capacity (kW)	12.9	14.3	15.7	17.2	18.7	20.1
	Unit Power (kW)	7.6	7.7	7.8	7.9	8.0	8.1

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 47. Gross cooling capacities (MBH) TTA076H condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	263.6	267.2	270.8	275.6	282.7	280.5
	Capacity (Btuh/1000)	67.0	74.8	82.6	91.0	99.8	107.2
	Unit Power (kW)	4.0	4.1	4.1	4.1	4.1	4.1
75	Head Press (psig)	302.9	306.8	310.2	313.9	313.8	318.3
	Capacity (Btuh/1000)	63.1	70.3	77.9	85.9	93.4	101.0
	Unit Power (kW)	4.6	4.6	4.6	4.6	4.5	4.5
85	Head Press (psig)	345.9	350.0	353.4	356.3	355.2	359.7
	Capacity (Btuh/1000)	58.8	65.7	73.0	80.5	87.5	94.6
	Unit Power (kW)	5.2	5.2	5.2	5.2	5.1	5.1
95	Head Press (psig)	376.7	397.2	400.7	403.3	400.2	404.6
	Capacity (Btuh/1000)	54.6	60.9	67.9	75.0	81.5	88.1
	Unit Power (kW)	5.6	5.9	5.8	5.8	5.7	5.7
105	Head Press (psig)	427.0	448.3	451.9	454.4	449.1	453.3
	Capacity (Btuh/1000)	50.0	56.0	62.7	69.4	75.5	81.6
	Unit Power (kW)	6.4	6.7	6.6	6.6	6.4	6.4
115	Head Press (psig)	481.5	485.5	506.7	496.1	501.5	505.7
	Capacity (Btuh/1000)	45.4	51.2	57.5	63.3	69.4	75.0
	Unit Power (kW)	7.3	7.3	7.5	7.3	7.3	7.2
125	Head Press (psig)	540.1	543.9	547.3	551.9	557.1	561.1
	Capacity (Btuh/1000)	40.8	46.3	51.9	57.6	63.1	68.2
	Unit Power (kW)	8.4	8.3	8.3	8.2	8.2	8.2

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 48. Gross cooling capacities (kW) TTA076H condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1817.7	1842.3	1867.0	1900.0	1949.5	1934.0
	Capacity (kW)	19.6	21.9	24.2	26.7	29.3	31.4
	Unit Power (kW)	4.0	4.1	4.1	4.1	4.1	4.1
23.9	Head Press (kPa)	2088.1	2115.2	2138.7	2164.0	2163.8	2194.8
	Capacity (kW)	18.5	20.6	22.8	25.2	27.4	29.6
	Unit Power (kW)	4.6	4.6	4.6	4.6	4.5	4.5
29.4	Head Press (kPa)	2385.1	2413.5	2436.8	2456.5	2449.0	2479.8
	Capacity (kW)	17.2	19.3	21.4	23.6	25.7	27.7
	Unit Power (kW)	5.2	5.2	5.2	5.2	5.1	5.1
35	Head Press (kPa)	2597.5	2738.4	2762.6	2780.8	2759.5	2789.9
	Capacity (kW)	16.0	17.9	19.9	22.0	23.9	25.8
	Unit Power (kW)	5.6	5.9	5.8	5.8	5.7	5.7
40.6	Head Press (kPa)	2944.0	3091.0	3115.8	3133.2	3096.1	3125.7
	Capacity (kW)	14.7	16.4	18.4	20.4	22.1	23.9
	Unit Power (kW)	6.4	6.7	6.6	6.6	6.4	6.4
46.1	Head Press (kPa)	3319.9	3347.1	3493.8	3420.8	3457.8	3486.8
	Capacity (kW)	13.3	15.0	16.9	18.6	20.3	22.0
	Unit Power (kW)	7.3	7.3	7.5	7.3	7.3	7.2
51.7	Head Press (kPa)	3723.7	3750.2	3773.6	3805.5	3841.3	3868.4
	Capacity (kW)	12.0	13.6	15.2	16.9	18.5	20.0
	Unit Power (kW)	8.4	8.3	8.3	8.2	8.2	8.2

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 49. Gross cooling capacities (MBH) TTA101G condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	272.3	273.7	274.6	275.0	280.0	284.4
	Capacity (Btuh/1000)	84.2	92.9	102.1	111.9	122.2	132.8
	Unit Power (kW)	5.4	5.4	5.4	5.4	5.4	5.5
75	Head Press (psig)	313.9	314.6	314.7	314.4	318.4	322.3
	Capacity (Btuh/1000)	79.8	88.1	96.9	106.1	115.8	125.7
	Unit Power (kW)	5.9	5.9	5.9	5.9	5.9	6.0
85	Head Press (psig)	360.2	359.9	359.1	357.7	360.4	363.7
	Capacity (Btuh/1000)	75.2	83.1	91.5	100.2	109.2	118.3
	Unit Power (kW)	6.6	6.6	6.5	6.5	6.5	6.6
95	Head Press (psig)	411.8	410.1	407.9	405.3	406.2	408.7
	Capacity (Btuh/1000)	70.2	77.8	85.7	94.0	102.4	110.7
	Unit Power (kW)	7.3	7.3	7.2	7.2	7.2	7.2
105	Head Press (psig)	468.8	465.2	461.2	457.0	455.6	457.2
	Capacity (Btuh/1000)	65.1	72.3	79.9	87.7	95.5	103.0
	Unit Power (kW)	8.2	8.1	8.0	7.9	7.9	7.9
115	Head Press (psig)	531.2	524.9	518.8	512.7	508.4	508.9
	Capacity (Btuh/1000)	60.3	67.1	74.2	81.4	88.4	95.1
	Unit Power (kW)	9.1	9.0	8.9	8.8	8.7	8.7
125	Head Press (psig)	597.7	588.7	580.1	572.0	564.4	563.1
	Capacity (Btuh/1000)	56.0	62.2	68.7	75.1	81.0	86.6
	Unit Power (kW)	10.1	10.0	9.8	9.7	9.5	9.5

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 50. Gross cooling capacities (kW) TTA101G condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1877.7	1887.0	1893.1	1895.9	1930.8	1961.1
	Capacity (kW)	24.7	27.2	29.9	32.8	35.8	38.9
	Unit Power (kW)	5.4	5.4	5.4	5.4	5.4	5.5
23.9	Head Press (kPa)	2164.3	2168.8	2169.8	2167.4	2195.3	2222.0
	Capacity (kW)	23.4	25.8	28.4	31.1	33.9	36.8
	Unit Power (kW)	5.9	5.9	5.9	5.9	5.9	6.0
29.4	Head Press (kPa)	2483.8	2481.6	2475.7	2466.5	2485.1	2507.4
	Capacity (kW)	22.0	24.3	26.8	29.4	32.0	34.7
	Unit Power (kW)	6.6	6.6	6.5	6.5	6.5	6.6
35	Head Press (kPa)	2839.2	2827.2	2812.1	2794.3	2800.7	2817.6
	Capacity (kW)	20.6	22.8	25.1	27.6	30.0	32.5
	Unit Power (kW)	7.3	7.3	7.2	7.2	7.2	7.2
40.6	Head Press (kPa)	3232.6	3207.2	3179.8	3151.0	3141.4	3152.0
	Capacity (kW)	19.1	21.2	23.4	25.7	28.0	30.2
	Unit Power (kW)	8.2	8.1	8.0	7.9	7.9	7.9
46.1	Head Press (kPa)	3662.7	3619.3	3576.7	3535.1	3505.1	3508.6
	Capacity (kW)	17.7	19.7	21.7	23.9	25.9	27.9
	Unit Power (kW)	9.1	9.0	8.9	8.8	8.7	8.7
51.7	Head Press (kPa)	4121.3	4058.7	3999.5	3943.8	3891.5	3882.5
	Capacity (kW)	16.4	18.2	20.1	22.0	23.8	25.4
	Unit Power (kW)	10.1	10.0	9.8	9.7	9.5	9.5

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 51. Gross cooling capacities (MBH) TTA101H condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	**35**	**40**	**45**	**50**	**55**
65	Head Press (psig)	255.7	260.9	266.2	271.3	276.3	280.9
	Capacity (Btuh/1000)	84.7	93.2	102.3	111.8	121.8	132.1
	Unit Power (kW)	4.9	5.0	5.0	5.1	5.1	5.2
75	Head Press (psig)	292.2	297.5	302.9	308.1	313.0	317.4
	Capacity (Btuh/1000)	79.0	87.0	95.4	104.3	113.5	123.3
	Unit Power (kW)	5.5	5.6	5.6	5.7	5.7	5.7
85	Head Press (psig)	332.7	338.2	343.6	348.8	353.7	358.0
	Capacity (Btuh/1000)	73.8	81.3	89.2	97.5	106.3	115.4
	Unit Power (kW)	6.3	6.3	6.3	6.4	6.4	6.4
95	Head Press (psig)	376.8	382.5	388.1	393.4	398.2	402.5
	Capacity (Btuh/1000)	68.5	75.6	83.1	91.0	99.5	107.9
	Unit Power (kW)	7.1	7.1	7.1	7.2	7.2	7.2
105	Head Press (psig)	424.2	430.2	435.7	441.3	446.2	450.5
	Capacity (Btuh/1000)	62.7	69.6	77.1	84.6	92.6	100.5
	Unit Power (kW)	7.9	8.0	8.0	8.0	8.0	8.0
115	Head Press (psig)	474.6	480.8	486.8	492.2	497.2	501.5
	Capacity (Btuh/1000)	56.3	63.0	70.1	77.7	85.3	92.7
	Unit Power (kW)	8.8	8.8	8.9	8.9	8.9	8.9
125	Head Press (psig)	527.9	534.2	540.1	545.6	550.6	555.0
	Capacity (Btuh/1000)	49.1	55.7	62.7	70.0	77.2	84.1
	Unit Power (kW)	9.7	9.7	9.8	9.8	9.8	9.8

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 52. Gross cooling capacities (kW) TTA101H condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	**1.7**	**4.4**	**7.2**	**10**	**12.8**
18.3	Head Press (kPa)	1762.9	1799.0	1835.2	1870.8	1905.0	1936.5
	Capacity (kW)	24.8	27.3	30.0	32.8	35.7	38.7
	Unit Power (kW)	4.9	5.0	5.0	5.1	5.1	5.2
23.9	Head Press (kPa)	2014.8	2051.5	2088.2	2124.0	2158.1	2188.6
	Capacity (kW)	23.2	25.5	28.0	30.6	33.3	36.1
	Unit Power (kW)	5.5	5.6	5.6	5.7	5.7	5.7
29.4	Head Press (kPa)	2293.8	2331.5	2368.8	2405.1	2438.9	2468.6
	Capacity (kW)	21.6	23.8	26.1	28.6	31.1	33.8
	Unit Power (kW)	6.3	6.3	6.3	6.4	6.4	6.4
35	Head Press (kPa)	2597.9	2637.1	2675.7	2712.6	2745.6	2775.0
	Capacity (kW)	20.1	22.2	24.4	26.7	29.1	31.6
	Unit Power (kW)	7.1	7.1	7.1	7.2	7.2	7.2
40.6	Head Press (kPa)	2924.7	2965.8	3004.4	3042.9	3076.4	3105.9
	Capacity (kW)	18.4	20.4	22.6	24.8	27.1	29.4
	Unit Power (kW)	7.9	8.0	8.0	8.0	8.0	8.0
46.1	Head Press (kPa)	3272.0	3315.0	3356.3	3393.9	3427.9	3457.8
	Capacity (kW)	16.5	18.5	20.5	22.8	25.0	27.2
	Unit Power (kW)	8.8	8.8	8.9	8.9	8.9	8.9
51.7	Head Press (kPa)	3640.0	3682.9	3724.1	3762.0	3796.5	3826.7
	Capacity (kW)	14.4	16.3	18.4	20.5	22.6	24.7
	Unit Power (kW)	9.7	9.7	9.8	9.8	9.8	9.8

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 53. Gross cooling capacities (MBH) one compressor - TTA101F condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	213.4	216.4	219.6	222.9	226.3	230.0
	Capacity (Btuh/1000)	39.4	44.5	49.9	55.7	61.6	68.0
	Unit Power (kW)	2.6	2.6	2.6	2.6	2.6	2.6
75	Head Press (psig)	247.9	251.0	254.2	257.6	261.1	264.8
	Capacity (Btuh/1000)	38.3	43.0	47.9	53.3	58.9	64.8
	Unit Power (kW)	2.8	2.8	2.8	2.8	2.8	2.8
85	Head Press (psig)	286.0	289.1	292.4	295.8	299.4	303.1
	Capacity (Btuh/1000)	36.6	41.0	45.7	50.6	55.9	61.4
	Unit Power (kW)	3.0	3.0	3.1	3.1	3.1	3.1
95	Head Press (psig)	327.7	330.9	334.2	337.7	341.3	345.1
	Capacity (Btuh/1000)	34.6	38.8	43.1	47.8	52.6	57.8
	Unit Power (kW)	3.4	3.4	3.4	3.4	3.5	3.5
105	Head Press (psig)	373.0	376.3	379.8	383.3	387.1	391.0
	Capacity (Btuh/1000)	32.2	36.1	40.3	44.7	49.2	54.0
	Unit Power (kW)	3.8	3.8	3.8	3.8	3.9	3.9
115	Head Press (psig)	422.3	425.7	429.3	433.0	436.9	440.8
	Capacity (Btuh/1000)	29.4	33.2	37.2	41.3	45.6	50.0
	Unit Power (kW)	4.3	4.3	4.3	4.3	4.3	4.4
125	Head Press (psig)	475.7	479.2	482.9	486.7	490.6	494.5
	Capacity (Btuh/1000)	26.4	30.0	33.8	37.7	41.7	45.8
	Unit Power (kW)	4.9	4.9	4.9	4.9	4.9	4.9

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 54. Gross cooling capacities (kW) one compressor - TTA101F condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1471.4	1492.1	1513.9	1536.9	1560.4	1585.7
	Capacity (kW)	11.6	13.0	14.6	16.3	18.0	19.9
	Unit Power (kW)	2.6	2.6	2.6	2.6	2.6	2.6
23.9	Head Press (kPa)	1709.3	1730.3	1752.4	1775.9	1800.4	1825.9
	Capacity (kW)	11.2	12.6	14.0	15.6	17.3	19.0
	Unit Power (kW)	2.8	2.8	2.8	2.8	2.8	2.8
29.4	Head Press (kPa)	1972.0	1993.4	2016.0	2039.6	2064.5	2089.9
	Capacity (kW)	10.7	12.0	13.4	14.8	16.4	18.0
	Unit Power (kW)	3.0	3.0	3.1	3.1	3.1	3.1
35	Head Press (kPa)	2259.3	2281.3	2304.2	2328.1	2353.2	2379.4
	Capacity (kW)	10.1	11.4	12.6	14.0	15.4	16.9
	Unit Power (kW)	3.4	3.4	3.4	3.4	3.5	3.5
40.6	Head Press (kPa)	2572.0	2594.8	2618.5	2643.1	2668.7	2695.5
	Capacity (kW)	9.4	10.6	11.8	13.1	14.4	15.8
	Unit Power (kW)	3.8	3.8	3.8	3.8	3.9	3.9
46.1	Head Press (kPa)	2911.9	2935.4	2959.9	2985.5	3012.0	3039.0
	Capacity (kW)	8.6	9.7	10.9	12.1	13.4	14.7
	Unit Power (kW)	4.3	4.3	4.3	4.3	4.3	4.4
51.7	Head Press (kPa)	3279.7	3304.3	3329.7	3355.7	3382.3	3409.2
	Capacity (kW)	7.7	8.8	9.9	11.0	12.2	13.4
	Unit Power (kW)	4.9	4.9	4.9	4.9	4.9	4.9

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 55. Gross cooling capacities (MBH) both compressors - TTA101F condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	250.5	256.7	263.2	270.0	277.1	284.5
	Capacity (Btuh/1000)	85.2	94.3	103.8	113.7	124.0	134.5
	Unit Power (kW)	4.9	5.0	5.0	5.1	5.2	5.3
75	Head Press (psig)	287.6	293.9	300.6	307.5	314.7	322.2
	Capacity (Btuh/1000)	81.7	90.2	99.0	108.3	117.8	127.7
	Unit Power (kW)	5.4	5.5	5.6	5.7	5.8	5.9
85	Head Press (psig)	327.9	334.4	341.2	348.3	355.7	363.3
	Capacity (Btuh/1000)	77.4	85.4	93.7	102.4	111.3	120.5
	Unit Power (kW)	6.1	6.2	6.3	6.4	6.5	6.7
95	Head Press (psig)	371.4	378.2	385.2	392.5	400.1	407.8
	Capacity (Btuh/1000)	72.5	80.0	87.8	96.0	104.4	113.1
	Unit Power (kW)	6.9	7.0	7.1	7.2	7.3	7.5
105	Head Press (psig)	418.2	425.3	432.6	440.2	448.0	456.0
	Capacity (Btuh/1000)	66.9	74.1	81.5	89.3	97.3	105.4
	Unit Power (kW)	7.9	8.0	8.0	8.1	8.3	8.4
115	Head Press (psig)	468.4	476.0	483.7	491.5	499.5	507.7
	Capacity (Btuh/1000)	60.8	67.7	74.8	82.2	89.7	97.4
	Unit Power (kW)	9.0	9.0	9.1	9.2	9.3	9.4
125	Head Press (psig)	522.0	530.1	538.1	546.3	554.5	562.8
	Capacity (Btuh/1000)	54.3	60.9	67.7	74.7	81.8	89.0
	Unit Power (kW)	10.2	10.3	10.3	10.3	10.4	10.4

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 56. Gross cooling capacities (kW) both compressors - TTA101F condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1727.0	1769.9	1814.9	1861.9	1910.8	1961.7
	Capacity (kW)	25.0	27.6	30.4	33.3	36.3	39.4
	Unit Power (kW)	4.9	5.0	5.0	5.1	5.2	5.3
23.9	Head Press (kPa)	1982.8	2026.5	2072.3	2120.1	2169.9	2221.6
	Capacity (kW)	23.9	26.4	29.0	31.7	34.5	37.4
	Unit Power (kW)	5.4	5.5	5.6	5.7	5.8	5.9
29.4	Head Press (kPa)	2260.6	2305.6	2352.6	2401.6	2452.4	2505.1
	Capacity (kW)	22.7	25.0	27.5	30.0	32.6	35.3
	Unit Power (kW)	6.1	6.2	6.3	6.4	6.5	6.7
35	Head Press (kPa)	2560.9	2607.6	2656.0	2706.3	2758.4	2812.0
	Capacity (kW)	21.2	23.4	25.7	28.1	30.6	33.2
	Unit Power (kW)	6.9	7.0	7.1	7.2	7.3	7.5
40.6	Head Press (kPa)	2883.4	2932.3	2982.9	3035.1	3088.8	3143.9
	Capacity (kW)	19.6	21.7	23.9	26.2	28.5	30.9
	Unit Power (kW)	7.9	8.0	8.0	8.1	8.3	8.4
46.1	Head Press (kPa)	3229.8	3281.7	3334.7	3388.9	3444.2	3500.4
	Capacity (kW)	17.8	19.8	21.9	24.1	26.3	28.6
	Unit Power (kW)	9.0	9.0	9.1	9.2	9.3	9.4
51.7	Head Press (kPa)	3599.2	3654.6	3710.1	3766.5	3823.4	3880.6
	Capacity (kW)	15.9	17.8	19.8	21.9	24.0	26.1
	Unit Power (kW)	10.2	10.3	10.3	10.3	10.4	10.4

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 57. Gross cooling capacities (MBH) TTA126E condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	264.6	272.2	280.2	288.6	297.3	306.5
	Capacity (Btuh/1000)	108.1	119.8	132.1	144.7	157.8	171.2
	Unit Power (kW)	6.7	6.9	7.0	7.2	7.4	7.5
75	Head Press (psig)	302.2	310.1	318.4	327.1	336.2	345.6
	Capacity (Btuh/1000)	101.9	113.0	124.6	136.6	148.9	161.5
	Unit Power (kW)	7.4	7.6	7.7	7.9	8.1	8.3
85	Head Press (psig)	343.2	351.4	360.0	369.0	378.3	387.9
	Capacity (Btuh/1000)	95.1	105.7	116.7	128.0	139.7	151.5
	Unit Power (kW)	8.2	8.4	8.6	8.7	8.9	9.1
95	Head Press (psig)	387.4	396.0	405.0	414.2	423.8	433.7
	Capacity (Btuh/1000)	87.9	97.9	108.3	119.0	130.0	141.2
	Unit Power (kW)	9.1	9.3	9.5	9.7	9.9	10.1
105	Head Press (psig)	435.1	444.2	453.6	463.2	473.1	483.3
	Capacity (Btuh/1000)	80.2	89.6	99.5	109.7	120.1	130.6
	Unit Power (kW)	10.1	10.3	10.5	10.7	10.9	11.1
115	Head Press (psig)	486.6	496.2	505.9	515.8	526.1	536.6
	Capacity (Btuh/1000)	72.2	81.1	90.4	100.0	109.8	119.7
	Unit Power (kW)	11.2	11.4	11.6	11.8	12.1	12.3
125	Head Press (psig)	541.9	552.0	562.1	572.5	582.9	593.5
	Capacity (Btuh/1000)	63.7	72.2	80.8	89.8	99.0	108.2
	Unit Power (kW)	12.4	12.7	12.9	13.1	13.3	13.5

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 58. Gross cooling capacities (kW) TTA126E condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1824.4	1876.6	1931.8	1989.7	2050.0	2113.1
	Capacity (kW)	31.7	35.1	38.7	42.4	46.2	50.2
	Unit Power (kW)	6.7	6.9	7.0	7.2	7.4	7.5
23.9	Head Press (kPa)	2083.9	2138.3	2195.5	2255.4	2317.7	2382.6
	Capacity (kW)	29.9	33.1	36.5	40.0	43.6	47.3
	Unit Power (kW)	7.4	7.6	7.7	7.9	8.1	8.3
29.4	Head Press (kPa)	2366.0	2422.9	2482.3	2544.2	2608.3	2674.8
	Capacity (kW)	27.9	31.0	34.2	37.5	40.9	44.4
	Unit Power (kW)	8.2	8.4	8.6	8.7	8.9	9.1
35	Head Press (kPa)	2671.2	2730.5	2792.2	2856.1	2922.1	2990.3
	Capacity (kW)	25.8	28.7	31.7	34.9	38.1	41.4
	Unit Power (kW)	9.1	9.3	9.5	9.7	9.9	10.1
40.6	Head Press (kPa)	3000.2	3062.5	3127.1	3193.5	3262.1	3332.3
	Capacity (kW)	23.5	26.3	29.2	32.1	35.2	38.3
	Unit Power (kW)	10.1	10.3	10.5	10.7	10.9	11.1
46.1	Head Press (kPa)	3355.3	3420.9	3487.9	3556.5	3627.5	3699.7
	Capacity (kW)	21.2	23.8	26.5	29.3	32.2	35.1
	Unit Power (kW)	11.2	11.4	11.6	11.8	12.1	12.3
51.7	Head Press (kPa)	3736.5	3805.6	3875.3	3946.9	4018.9	4092.3
	Capacity (kW)	18.7	21.1	23.7	26.3	29.0	31.7
	Unit Power (kW)	12.4	12.7	12.9	13.1	13.3	13.5

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 59. Gross cooling capacities (MBH) TTA156E condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	234.2	239.1	244.2	249.6	255.3	261.2
	Capacity (Btuh/1000)	133.1	148.2	164.1	180.8	198.1	216.4
	Unit Power (kW)	7.9	8.1	8.3	8.5	8.7	8.9
75	Head Press (psig)	269.7	274.9	280.3	286.0	291.9	298.1
	Capacity (Btuh/1000)	125.3	139.6	155.0	171.1	187.9	205.4
	Unit Power (kW)	8.6	8.8	9.0	9.2	9.4	9.7
85	Head Press (psig)	308.7	314.1	319.8	325.8	332.0	338.5
	Capacity (Btuh/1000)	117.1	130.8	145.4	160.9	177.0	193.7
	Unit Power (kW)	9.5	9.7	9.9	10.1	10.3	10.6
95	Head Press (psig)	351.3	357.0	362.9	369.1	375.6	382.3
	Capacity (Btuh/1000)	108.4	121.5	135.3	150.0	165.4	181.3
	Unit Power (kW)	10.6	10.8	11.0	11.2	11.4	11.6
105	Head Press (psig)	397.6	403.5	409.6	416.0	422.7	429.5
	Capacity (Btuh/1000)	99.4	111.8	124.8	138.6	153.1	168.2
	Unit Power (kW)	11.8	12.0	12.2	12.4	12.6	12.8
115	Head Press (psig)	447.8	454.0	460.2	466.7	473.5	480.5
	Capacity (Btuh/1000)	90.0	101.6	113.8	126.7	140.2	154.4
	Unit Power (kW)	13.2	13.4	13.6	13.8	14.0	14.2
125	Head Press (psig)	502.0	508.2	514.5	521.1	527.9	535.0
	Capacity (Btuh/1000)	80.1	90.8	102.2	114.1	126.5	139.6
	Unit Power (kW)	14.7	14.9	15.1	15.3	15.4	15.6

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 60. Gross cooling capacities (kW) TTA156E condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1615.1	1648.6	1683.8	1721.0	1760.1	1801.0
	Capacity (kW)	39.0	43.4	48.1	53.0	58.1	63.4
	Unit Power (kW)	7.9	8.1	8.3	8.5	8.7	8.9
23.9	Head Press (kPa)	1859.8	1895.1	1932.6	1971.7	2012.8	2055.7
	Capacity (kW)	36.7	40.9	45.4	50.2	55.1	60.2
	Unit Power (kW)	8.6	8.8	9.0	9.2	9.4	9.7
29.4	Head Press (kPa)	2128.5	2165.7	2205.0	2246.1	2289.0	2333.7
	Capacity (kW)	34.3	38.3	42.6	47.1	51.9	56.8
	Unit Power (kW)	9.5	9.7	9.9	10.1	10.3	10.6
35	Head Press (kPa)	2422.3	2461.3	2502.0	2545.0	2589.4	2635.6
	Capacity (kW)	31.8	35.6	39.6	44.0	48.5	53.1
	Unit Power (kW)	10.6	10.8	11.0	11.2	11.4	11.6
40.6	Head Press (kPa)	2741.6	2782.3	2824.3	2868.3	2914.1	2961.6
	Capacity (kW)	29.1	32.8	36.6	40.6	44.9	49.3
	Unit Power (kW)	11.8	12.0	12.2	12.4	12.6	12.8
46.1	Head Press (kPa)	3087.7	3129.9	3173.0	3217.9	3264.7	3313.3
	Capacity (kW)	26.4	29.8	33.4	37.1	41.1	45.2
	Unit Power (kW)	13.2	13.4	13.6	13.8	14.0	14.2
51.7	Head Press (kPa)	3461.2	3504.0	3547.6	3592.9	3639.7	3688.6
	Capacity (kW)	23.5	26.6	29.9	33.4	37.1	40.9
	Unit Power (kW)	14.7	14.9	15.1	15.3	15.4	15.6

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 61. Gross cooling capacities (MBH) one compressor - TTA156F condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	207.2	209.4	211.7	214.1	216.7	219.4
	Capacity (Btuh/1000)	66.2	73.7	81.7	90.1	98.9	108.2
	Unit Power (kW)	4.3	4.4	4.5	4.5	4.6	4.7
75	Head Press (psig)	241.0	243.4	245.9	248.5	251.2	254.1
	Capacity (Btuh/1000)	62.9	70.1	77.9	86.0	94.6	103.6
	Unit Power (kW)	4.6	4.7	4.8	4.8	4.9	5.0
85	Head Press (psig)	278.7	281.2	283.8	286.6	289.5	292.6
	Capacity (Btuh/1000)	59.4	66.3	73.8	81.7	89.9	98.5
	Unit Power (kW)	5.0	5.1	5.1	5.2	5.3	5.4
95	Head Press (psig)	320.2	322.8	325.6	328.6	331.6	334.8
	Capacity (Btuh/1000)	55.6	62.3	69.4	76.9	84.9	93.2
	Unit Power (kW)	5.5	5.6	5.6	5.7	5.8	5.8
105	Head Press (psig)	365.8	368.6	371.5	374.5	377.6	380.9
	Capacity (Btuh/1000)	51.7	58.0	64.8	71.9	79.5	87.3
	Unit Power (kW)	6.1	6.1	6.2	6.2	6.3	6.4
115	Head Press (psig)	415.7	418.6	421.5	424.6	427.8	431.2
	Capacity (Btuh/1000)	47.5	53.5	59.8	66.5	73.6	81.1
	Unit Power (kW)	6.7	6.8	6.8	6.9	6.9	7.0
125	Head Press (psig)	470.1	473.1	476.0	479.1	482.4	485.8
	Capacity (Btuh/1000)	43.1	48.6	54.6	60.8	67.3	74.3
	Unit Power (kW)	7.5	7.5	7.6	7.6	7.7	7.7

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 62. Gross cooling capacities (kW) one compressor - TTA156F condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1428.2	1443.5	1459.5	1476.4	1494.3	1513.0
	Capacity (kW)	19.4	21.6	23.9	26.4	29.0	31.7
	Unit Power (kW)	4.3	4.4	4.5	4.5	4.6	4.7
23.9	Head Press (kPa)	1661.8	1678.0	1695.2	1713.3	1732.3	1752.2
	Capacity (kW)	18.4	20.5	22.8	25.2	27.7	30.3
	Unit Power (kW)	4.6	4.7	4.8	4.8	4.9	5.0
29.4	Head Press (kPa)	1921.4	1938.6	1956.9	1976.0	1996.1	2017.1
	Capacity (kW)	17.4	19.4	21.6	23.9	26.4	28.9
	Unit Power (kW)	5.0	5.1	5.1	5.2	5.3	5.4
35	Head Press (kPa)	2207.8	2226.0	2245.0	2265.3	2286.2	2308.2
	Capacity (kW)	16.3	18.3	20.3	22.5	24.9	27.3
	Unit Power (kW)	5.5	5.6	5.6	5.7	5.8	5.8
40.6	Head Press (kPa)	2522.1	2541.3	2561.1	2582.0	2603.8	2626.5
	Capacity (kW)	15.1	17.0	19.0	21.1	23.3	25.6
	Unit Power (kW)	6.1	6.1	6.2	6.2	6.3	6.4
46.1	Head Press (kPa)	2866.2	2885.9	2906.2	2927.4	2949.9	2973.1
	Capacity (kW)	13.9	15.7	17.5	19.5	21.6	23.8
	Unit Power (kW)	6.7	6.8	6.8	6.9	6.9	7.0
51.7	Head Press (kPa)	3241.5	3261.6	3282.1	3303.5	3326.0	3349.5
	Capacity (kW)	12.6	14.3	16.0	17.8	19.7	21.8
	Unit Power (kW)	7.5	7.5	7.6	7.6	7.7	7.7

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 63. Gross cooling capacities (MBH) both compressors - TTA156F condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	233.1	237.7	242.7	247.9	253.4	259.1
	Capacity (Btuh/1000)	136.7	150.9	165.8	181.5	197.9	215.0
	Unit Power (kW)	7.9	8.1	8.3	8.5	8.7	8.9
75	Head Press (psig)	268.4	273.4	278.6	284.1	289.8	295.8
	Capacity (Btuh/1000)	129.5	143.2	157.6	172.7	188.4	204.7
	Unit Power (kW)	8.6	8.8	9.0	9.2	9.4	9.6
85	Head Press (psig)	307.3	312.5	318.0	323.7	329.7	335.9
	Capacity (Btuh/1000)	121.9	135.0	148.8	163.2	178.1	193.7
	Unit Power (kW)	9.5	9.7	9.9	10.1	10.3	10.5
95	Head Press (psig)	349.8	355.2	360.9	366.8	373.0	379.4
	Capacity (Btuh/1000)	113.9	126.4	139.4	153.1	167.2	181.9
	Unit Power (kW)	10.6	10.8	11.0	11.2	11.4	11.6
105	Head Press (psig)	396.0	401.6	407.5	413.5	419.9	426.4
	Capacity (Btuh/1000)	105.4	117.2	129.5	142.3	155.6	169.3
	Unit Power (kW)	11.8	12.0	12.2	12.4	12.6	12.8
115	Head Press (psig)	446.0	451.8	457.8	463.9	470.3	476.9
	Capacity (Btuh/1000)	96.5	107.5	119.0	130.7	143.0	155.6
	Unit Power (kW)	13.2	13.4	13.5	13.7	13.9	14.1
125	Head Press (psig)	499.9	505.8	511.7	517.9	524.2	530.8
	Capacity (Btuh/1000)	87.0	97.0	107.4	118.3	129.5	141.0
	Unit Power (kW)	14.7	14.9	15.0	15.2	15.4	15.5

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 64. Gross cooling capacities (kW) both compressors - TTA156F condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1607.0	1639.1	1673.2	1709.1	1746.9	1786.7
	Capacity (kW)	40.1	44.2	48.6	53.2	58.0	63.0
	Unit Power (kW)	7.9	8.1	8.3	8.5	8.7	8.9
23.9	Head Press (kPa)	1850.8	1884.9	1920.8	1958.6	1998.2	2039.6
	Capacity (kW)	38.0	42.0	46.2	50.6	55.2	60.0
	Unit Power (kW)	8.6	8.8	9.0	9.2	9.4	9.6
29.4	Head Press (kPa)	2118.8	2154.6	2192.2	2231.7	2272.9	2316.0
	Capacity (kW)	35.7	39.6	43.6	47.8	52.2	56.8
	Unit Power (kW)	9.5	9.7	9.9	10.1	10.3	10.5
35	Head Press (kPa)	2411.7	2449.2	2488.3	2529.2	2571.9	2616.2
	Capacity (kW)	33.4	37.0	40.9	44.9	49.0	53.3
	Unit Power (kW)	10.6	10.8	11.0	11.2	11.4	11.6
40.6	Head Press (kPa)	2730.2	2769.1	2809.3	2851.3	2894.9	2940.2
	Capacity (kW)	30.9	34.3	37.9	41.7	45.6	49.6
	Unit Power (kW)	11.8	12.0	12.2	12.4	12.6	12.8
46.1	Head Press (kPa)	3075.3	3115.3	3156.5	3198.3	3242.4	3287.9
	Capacity (kW)	28.3	31.5	34.9	38.3	41.9	45.6
	Unit Power (kW)	13.2	13.4	13.5	13.7	13.9	14.1
51.7	Head Press (kPa)	3447.0	3487.1	3528.0	3570.6	3614.6	3659.7
	Capacity (kW)	25.5	28.4	31.5	34.7	38.0	41.3
	Unit Power (kW)	14.7	14.9	15.0	15.2	15.4	15.5

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 65. Gross cooling capacities (MBH) TTA201E condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	262.8	270.4	278.4	286.9	295.8	305.0
	Capacity (Btuh/1000)	201.6	222.9	245.3	268.8	293.2	318.6
	Unit Power (kW)	12.7	13.0	13.3	13.6	14.0	14.3
75	Head Press (psig)	300.4	308.3	316.7	325.5	334.6	344.2
	Capacity (Btuh/1000)	191.2	211.4	232.6	254.8	277.9	301.8
	Unit Power (kW)	13.8	14.1	14.5	14.8	15.2	15.6
85	Head Press (psig)	341.4	349.7	358.4	367.4	376.9	386.6
	Capacity (Btuh/1000)	180.2	199.3	219.3	240.2	262.0	284.4
	Unit Power (kW)	15.1	15.4	15.8	16.2	16.6	17.0
95	Head Press (psig)	386.1	394.7	403.6	412.9	422.5	432.4
	Capacity (Btuh/1000)	168.6	186.6	205.4	225.0	245.3	266.3
	Unit Power (kW)	16.6	16.9	17.3	17.7	18.1	18.6
105	Head Press (psig)	434.5	443.3	452.5	462.0	471.8	481.9
	Capacity (Btuh/1000)	156.6	173.3	190.9	209.1	228.1	247.6
	Unit Power (kW)	18.2	18.6	19.0	19.4	19.8	20.3
115	Head Press (psig)	486.8	495.9	505.2	514.9	524.8	535.0
	Capacity (Btuh/1000)	144.0	159.5	175.7	192.6	210.1	228.0
	Unit Power (kW)	20.0	20.4	20.8	21.2	21.7	22.1
125	Head Press (psig)	543.1	552.4	561.8	571.5	581.4	591.5
	Capacity (Btuh/1000)	130.6	144.8	159.7	175.1	191.0	207.3
	Unit Power (kW)	22.0	22.4	22.8	23.2	23.6	24.0

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 66. Gross cooling capacities (kW) TTA201E condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1811.8	1864.4	1919.8	1978.1	2039.3	2103.2
	Capacity (kW)	59.1	65.3	71.9	78.8	85.9	93.4
	Unit Power (kW)	12.7	13.0	13.3	13.6	14.0	14.3
23.9	Head Press (kPa)	2071.0	2125.8	2183.5	2244.0	2307.2	2373.0
	Capacity (kW)	56.0	61.9	68.2	74.7	81.5	88.5
	Unit Power (kW)	13.8	14.1	14.5	14.8	15.2	15.6
29.4	Head Press (kPa)	2354.2	2411.3	2471.1	2533.5	2598.3	2665.6
	Capacity (kW)	52.8	58.4	64.3	70.4	76.8	83.3
	Unit Power (kW)	15.1	15.4	15.8	16.2	16.6	17.0
35	Head Press (kPa)	2662.1	2721.2	2782.6	2846.5	2912.7	2981.3
	Capacity (kW)	49.4	54.7	60.2	65.9	71.9	78.0
	Unit Power (kW)	16.6	16.9	17.3	17.7	18.1	18.6
40.6	Head Press (kPa)	2995.4	3056.7	3119.9	3185.5	3253.1	3322.9
	Capacity (kW)	45.9	50.8	55.9	61.3	66.8	72.6
	Unit Power (kW)	18.2	18.6	19.0	19.4	19.8	20.3
46.1	Head Press (kPa)	3356.4	3419.2	3483.5	3549.9	3618.5	3688.9
	Capacity (kW)	42.2	46.7	51.5	56.4	61.6	66.8
	Unit Power (kW)	20.0	20.4	20.8	21.2	21.7	22.1
51.7	Head Press (kPa)	3744.5	3808.4	3873.4	3940.2	4008.5	4078.2
	Capacity (kW)	38.3	42.5	46.8	51.3	56.0	60.8
	Unit Power (kW)	22.0	22.4	22.8	23.2	23.6	24.0

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 67. Gross cooling capacities (MBH) one compressor - TTA201F condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	216.9	220.1	223.5	227.1	230.8	234.8
	Capacity (Btuh/1000)	101.3	112.3	124.0	136.3	149.3	162.8
	Unit Power (kW)	6.4	6.5	6.5	6.6	6.7	6.8
75	Head Press (psig)	251.3	254.7	258.3	262.0	266.0	270.1
	Capacity (Btuh/1000)	96.4	106.9	118.0	129.7	142.0	154.8
	Unit Power (kW)	6.8	6.9	7.0	7.1	7.2	7.2
85	Head Press (psig)	289.4	293.0	296.7	300.6	304.7	308.9
	Capacity (Btuh/1000)	91.1	101.0	111.5	122.6	134.2	146.3
	Unit Power (kW)	7.3	7.4	7.5	7.6	7.7	7.8
95	Head Press (psig)	331.3	335.0	338.8	342.8	347.0	351.3
	Capacity (Btuh/1000)	85.5	94.8	104.7	115.0	125.9	137.1
	Unit Power (kW)	8.0	8.1	8.2	8.3	8.4	8.5
105	Head Press (psig)	377.1	380.8	384.7	388.8	393.0	397.2
	Capacity (Btuh/1000)	79.4	88.1	97.3	106.9	117.0	127.2
	Unit Power (kW)	8.7	8.8	8.9	9.0	9.1	9.3
115	Head Press (psig)	426.7	430.4	434.2	438.1	442.1	446.3
	Capacity (Btuh/1000)	72.8	80.7	89.0	97.5	106.2	115.1
	Unit Power (kW)	9.5	9.6	9.7	9.9	10.0	10.1
125	Head Press (psig)	480.3	483.9	481.9	491.6	495.9	500.3
	Capacity (Btuh/1000)	64.9	71.8	78.3	85.5	93.9	102.7
	Unit Power (kW)	10.5	10.6	10.6	10.8	10.9	11.0

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 68. Gross cooling capacities (kW) one compressor - TTA201F condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1530.0	1556.4	1584.2	1613.3	1644.0	1676.0
	Capacity (kW)	33.0	36.8	40.8	45.1	49.5	54.1
	Unit Power (kW)	6.7	6.8	6.9	7.0	7.1	7.2
23.9	Head Press (kPa)	1774.5	1801.6	1830.2	1860.1	1891.3	1923.7
	Capacity (kW)	31.7	35.2	39.0	42.9	47.0	51.2
	Unit Power (kW)	7.3	7.3	7.4	7.6	7.7	7.8
29.4	Head Press (kPa)	2043.2	2071.3	2100.6	2131.1	2162.9	2195.7
	Capacity (kW)	30.2	33.5	37.0	40.6	44.4	48.4
	Unit Power (kW)	7.9	8.0	8.1	8.2	8.3	8.4
35	Head Press (kPa)	2336.8	2366.0	2396.2	2427.5	2459.7	2492.9
	Capacity (kW)	28.4	31.5	34.8	38.2	41.8	45.4
	Unit Power (kW)	8.7	8.8	8.9	9.0	9.1	9.2
40.6	Head Press (kPa)	2655.8	2686.4	2717.6	2749.6	2782.4	2815.8
	Capacity (kW)	26.4	29.4	32.5	35.7	39.0	42.4
	Unit Power (kW)	9.6	9.7	9.8	9.9	10.0	10.1
46.1	Head Press (kPa)	3001.3	3033.7	3066.0	3099.0	3132.4	3166.1
	Capacity (kW)	24.3	27.1	30.0	33.1	36.2	39.3
	Unit Power (kW)	10.6	10.7	10.8	10.9	11.0	11.1
51.7	Head Press (kPa)	3374.9	3409.0	3442.4	3476.1	3509.8	3543.5
	Capacity (kW)	21.9	24.6	27.4	30.3	33.2	36.1
	Unit Power (kW)	11.8	11.9	12.0	12.1	12.2	12.2

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 69. Gross cooling capacities (MBH) both compressors - TTA201F condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	262.6	270.3	278.4	287.0	295.9	305.3
	Capacity (Btuh/1000)	200.9	222.2	244.6	268.0	292.4	317.6
	Unit Power (kW)	12.7	13.0	13.3	13.7	14.0	14.4
75	Head Press (psig)	299.7	307.7	316.0	324.9	334.1	343.7
	Capacity (Btuh/1000)	190.1	210.3	231.5	253.7	276.7	300.4
	Unit Power (kW)	13.8	14.1	14.5	14.9	15.2	15.6
85	Head Press (psig)	340.1	348.4	357.0	366.1	375.5	385.2
	Capacity (Btuh/1000)	178.8	197.9	217.8	238.7	260.2	282.5
	Unit Power (kW)	15.1	15.4	15.8	16.2	16.6	17.0
95	Head Press (psig)	384.1	392.5	401.4	410.6	420.1	430.0
	Capacity (Btuh/1000)	166.9	184.8	203.5	223.0	243.1	263.8
	Unit Power (kW)	16.5	16.9	17.3	17.7	18.1	18.5
105	Head Press (psig)	431.5	440.2	449.3	458.6	468.3	478.4
	Capacity (Btuh/1000)	154.5	171.2	188.6	206.7	225.4	244.6
	Unit Power (kW)	18.2	18.6	19.0	19.4	19.8	20.2
115	Head Press (psig)	482.8	491.6	500.8	510.2	520.0	530.1
	Capacity (Btuh/1000)	141.6	157.0	173.1	189.8	206.9	224.6
	Unit Power (kW)	20.0	20.4	20.8	21.2	21.6	22.0
125	Head Press (psig)	537.8	546.7	555.9	565.3	575.0	585.0
	Capacity (Btuh/1000)	128.0	142.0	156.7	171.9	187.5	203.4
	Unit Power (kW)	21.9	22.3	22.7	23.1	23.5	23.9

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 70. Gross cooling capacities (kW) both compressors - TTA201F condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1810.7	1863.7	1919.7	1978.6	2040.4	2105.2
	Capacity (kW)	58.9	65.1	71.7	78.5	85.7	93.1
	Unit Power (kW)	12.7	13.0	13.3	13.7	14.0	14.4
23.9	Head Press (kPa)	2066.3	2121.2	2179.1	2239.8	2303.4	2369.7
	Capacity (kW)	55.7	61.6	67.9	74.3	81.1	88.0
	Unit Power (kW)	13.8	14.1	14.5	14.9	15.2	15.6
29.4	Head Press (kPa)	2345.2	2402.1	2461.7	2524.0	2588.8	2656.2
	Capacity (kW)	52.4	58.0	63.8	69.9	76.3	82.8
	Unit Power (kW)	15.1	15.4	15.8	16.2	16.6	17.0
35	Head Press (kPa)	2648.0	2706.4	2767.3	2830.8	2896.6	2964.7
	Capacity (kW)	48.9	54.2	59.7	65.4	71.3	77.3
	Unit Power (kW)	16.5	16.9	17.3	17.7	18.1	18.5
40.6	Head Press (kPa)	2975.2	3035.1	3097.5	3162.2	3229.1	3298.2
	Capacity (kW)	45.3	50.2	55.3	60.6	66.1	71.7
	Unit Power (kW)	18.2	18.6	19.0	19.4	19.8	20.2
46.1	Head Press (kPa)	3328.9	3389.7	3452.7	3517.9	3585.2	3654.7
	Capacity (kW)	41.5	46.0	50.7	55.6	60.7	65.8
	Unit Power (kW)	20.0	20.4	20.8	21.2	21.6	22.0
51.7	Head Press (kPa)	3708.0	3769.2	3832.5	3897.7	3964.7	4033.2
	Capacity (kW)	37.5	41.6	45.9	50.4	54.9	59.6
	Unit Power (kW)	21.9	22.3	22.7	23.1	23.5	23.9

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 71. Gross cooling capacities (MBH) one compressor - TTA251F condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	221.9	225.7	229.8	234.0	238.4	243.1
	Capacity (Btuh/1000)	112.6	125.6	139.3	153.7	168.8	184.5
	Unit Power (kW)	6.7	6.8	6.9	7.0	7.1	7.2
75	Head Press (psig)	257.4	261.3	265.5	269.8	274.3	279.0
	Capacity (Btuh/1000)	108.2	120.3	133.0	146.4	160.3	174.9
	Unit Power (kW)	7.3	7.3	7.4	7.6	7.7	7.8
85	Head Press (psig)	296.3	300.4	304.7	309.1	313.7	318.5
	Capacity (Btuh/1000)	103.0	114.2	126.1	138.6	151.6	165.0
	Unit Power (kW)	7.9	8.0	8.1	8.2	8.3	8.4
95	Head Press (psig)	338.9	343.2	347.5	352.1	356.8	361.6
	Capacity (Btuh/1000)	96.9	107.6	118.7	130.4	142.5	155.0
	Unit Power (kW)	8.7	8.8	8.9	9.0	9.1	9.2
105	Head Press (psig)	385.2	389.6	394.2	398.8	403.6	408.4
	Capacity (Btuh/1000)	90.2	100.3	110.9	121.8	133.1	144.8
	Unit Power (kW)	9.6	9.7	9.8	9.9	10.0	10.1
115	Head Press (psig)	435.3	440.0	444.7	449.5	454.3	459.2
	Capacity (Btuh/1000)	82.8	92.5	102.5	112.8	123.4	134.2
	Unit Power (kW)	10.6	10.7	10.8	10.9	11.0	11.1
125	Head Press (psig)	489.5	494.4	499.3	504.2	509.1	513.9
	Capacity (Btuh/1000)	74.8	84.1	93.6	103.3	113.2	123.1
	Unit Power (kW)	11.8	11.9	12.0	12.1	12.2	12.2

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 72. Gross cooling capacities (kW) both compressors - TTA251F condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1530.0	1556.4	1584.2	1613.3	1644.0	1676.0
	Capacity (kW)	33.0	36.8	40.8	45.1	49.5	54.1
	Unit Power (kW)	6.7	6.8	6.9	7.0	7.1	7.2
23.9	Head Press (kPa)	1774.5	1801.6	1830.2	1860.1	1891.3	1923.7
	Capacity (kW)	31.7	35.2	39.0	42.9	47.0	51.2
	Unit Power (kW)	7.3	7.3	7.4	7.6	7.7	7.8
29.4	Head Press (kPa)	2043.2	2071.3	2100.6	2131.1	2162.9	2195.7
	Capacity (kW)	30.2	33.5	37.0	40.6	44.4	48.4
	Unit Power (kW)	7.9	8.0	8.1	8.2	8.3	8.4
35	Head Press (kPa)	2336.8	2366.0	2396.2	2427.5	2459.7	2492.9
	Capacity (kW)	28.4	31.5	34.8	38.2	41.8	45.4
	Unit Power (kW)	8.7	8.8	8.9	9.0	9.1	9.2
40.6	Head Press (kPa)	2655.8	2686.4	2717.6	2749.6	2782.4	2815.8
	Capacity (kW)	26.4	29.4	32.5	35.7	39.0	42.4
	Unit Power (kW)	9.6	9.7	9.8	9.9	10.0	10.1
46.1	Head Press (kPa)	3001.3	3033.7	3066.0	3099.0	3132.4	3166.1
	Capacity (kW)	24.3	27.1	30.0	33.1	36.2	39.3
	Unit Power (kW)	10.6	10.7	10.8	10.9	11.0	11.1
51.7	Head Press (kPa)	3374.9	3409.0	3442.4	3476.1	3509.8	3543.5
	Capacity (kW)	21.9	24.6	27.4	30.3	33.2	36.1
	Unit Power (kW)	11.8	11.9	12.0	12.1	12.2	12.2

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 73. Gross cooling capacities (MBH) both compressors - TTA251F condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	262.2	269.9	278.0	286.4	295.0	304.0
	Capacity (Btuh/1000)	227.1	250.9	275.6	301.1	327.3	354.0
	Unit Power (kW)	13.3	13.6	13.9	14.3	14.6	15.0
75	Head Press (psig)	300.1	308.0	316.2	324.7	333.5	342.6
	Capacity (Btuh/1000)	216.1	238.2	261.2	284.9	309.2	333.9
	Unit Power (kW)	14.6	15.0	15.3	15.6	16.0	16.4
85	Head Press (psig)	341.0	349.2	357.6	366.3	375.3	384.4
	Capacity (Btuh/1000)	203.6	224.4	245.9	268.0	290.6	313.5
	Unit Power (kW)	16.2	16.5	16.9	17.2	17.6	17.9
95	Head Press (psig)	385.0	393.5	402.2	411.2	420.3	429.6
	Capacity (Btuh/1000)	189.9	209.5	229.8	250.5	271.6	292.8
	Unit Power (kW)	17.9	18.3	18.7	19.0	19.4	19.7
105	Head Press (psig)	432.2	441.1	450.3	459.6	468.9	478.4
	Capacity (Btuh/1000)	175.0	193.8	212.9	232.4	252.1	271.8
	Unit Power (kW)	19.9	20.2	20.6	21.0	21.4	21.8
115	Head Press (psig)	482.7	492.2	501.7	511.3	520.9	530.5
	Capacity (Btuh/1000)	159.3	177.2	195.3	213.6	231.9	250.1
	Unit Power (kW)	22.0	22.4	22.8	23.2	23.6	24.0
125	Head Press (psig)	536.5	546.5	556.5	566.4	576.1	585.7
	Capacity (Btuh/1000)	142.6	159.6	176.7	193.8	210.8	227.4
	Unit Power (kW)	24.3	24.7	25.1	25.6	26.0	26.3

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 74. Gross cooling capacities (kW) both compressors - TTA251F condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1808.0	1861.1	1916.6	1974.3	2034.1	2095.8
	Capacity (kW)	66.6	73.5	80.8	88.3	95.9	103.7
	Unit Power (kW)	13.3	13.6	13.9	14.3	14.6	15.0
23.9	Head Press (kPa)	2069.0	2123.3	2179.9	2238.8	2299.6	2362.0
	Capacity (kW)	63.3	69.8	76.6	83.5	90.6	97.9
	Unit Power (kW)	14.6	15.0	15.3	15.6	16.0	16.4
29.4	Head Press (kPa)	2351.2	2407.3	2465.6	2525.8	2587.6	2650.7
	Capacity (kW)	59.7	65.8	72.1	78.6	85.2	91.9
	Unit Power (kW)	16.2	16.5	16.9	17.2	17.6	17.9
35	Head Press (kPa)	2654.7	2713.1	2773.4	2835.1	2898.0	2961.9
	Capacity (kW)	55.6	61.4	67.3	73.4	79.6	85.8
	Unit Power (kW)	17.9	18.3	18.7	19.0	19.4	19.7
40.6	Head Press (kPa)	2979.9	3041.5	3104.6	3168.6	3233.3	3298.3
	Capacity (kW)	51.3	56.8	62.4	68.1	73.9	79.6
	Unit Power (kW)	19.9	20.2	20.6	21.0	21.4	21.8
46.1	Head Press (kPa)	3328.4	3393.5	3459.3	3525.5	3591.7	3657.8
	Capacity (kW)	46.7	51.9	57.2	62.6	68.0	73.3
	Unit Power (kW)	22.0	22.4	22.8	23.2	23.6	24.0
51.7	Head Press (kPa)	3699.1	3767.9	3836.7	3905.0	3972.4	4038.3
	Capacity (kW)	41.8	46.8	51.8	56.8	61.8	66.6
	Unit Power (kW)	24.3	24.7	25.1	25.6	26.0	26.3

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 75. Evaporator fan performance — TWE051D — air handler (IP)

External Static Pressure (Inches of Water Gauge)																						
	0.10"		0.20"		0.30"		0.40"		0.50"		0.60"		0.70"		0.80"		0.90"		1.00"		1.10"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	0.5 HP Standard Motor																1 HP High Static Motor					
1400	612	0.20	674	0.24	731	0.29	786	0.34	840	0.39	891	0.45	941	0.51	989	0.58	1034	0.65	1077	0.72	1117	0.78
1500	647	0.24	705	0.29	760	0.34	812	0.39	863	0.44	912	0.50	960	0.56	1006	0.63	1051	0.70	1094	0.77	—	—
1600	683	0.28	738	0.33	790	0.38	840	0.44	888	0.50	936	0.56	980	0.62	1025	0.69	1070	0.76	1111	0.83	—	—
1700	719	0.33	771	0.38	821	0.44	869	0.50	914	0.56	959	0.62	1003	0.68	1047	0.75	1089	0.82	—	—	—	—
1800	756	0.39	804	0.44	853	0.50	898	0.56	942	0.62	985	0.69	1028	0.75	1068	0.82	1109	0.89	—	—	—	—
1900	792	0.45	838	0.51	884	0.57	928	0.63	971	0.69	1012	0.76	1052	0.83	1092	0.90	—	—	—	—	—	—
2000	829	0.52	873	0.58	917	0.64	959	0.71	1000	0.77	1040	0.84	1079	0.91	1117	0.98	—	—	—	—	—	—
2100	866	0.60	908	0.66	950	0.72	991	0.79	1030	0.86	1069	0.93	1106	1.00	1144	1.08	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (MBh) = 3.15 x BHP.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full rsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Important: *See fan motor values in Table 89, p. 87 - Table 92, p. 89.*

Table 76. Evaporator fan performance — TWE051D — air handler (SI)

External Static Pressure (Inches of Water Gauge)																						
	25		50		75		100		125		150		174		199		224		249		274	
m^3/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
	0.38 kW Standard Motor																.75 kW High Static Motor					
2379	612	0.15	674	0.18	731	0.22	786	0.25	840	0.29	891	0.34	941	0.38	989	0.43	1034	0.48	1077	0.53	1117	0.58
2549	647	0.18	705	0.21	760	0.25	812	0.29	863	0.33	912	0.37	960	0.42	1006	0.47	1051	0.52	1094	0.58	—	—
2719	683	0.21	738	0.25	790	0.29	840	0.33	888	0.37	936	0.42	980	0.46	1025	0.51	1070	0.57	1111	0.62	—	—
2889	719	0.25	771	0.29	821	0.33	869	0.37	914	0.41	959	0.46	1003	0.51	1047	0.56	1089	0.61	—	—	—	—
3059	756	0.29	804	0.33	853	0.37	898	0.42	942	0.46	985	0.51	1028	0.56	1068	0.61	1109	0.66	—	—	—	—
3228	792	0.34	838	0.38	884	0.42	928	0.47	971	0.52	1012	0.57	1052	0.62	1092	0.67	—	—	—	—	—	—
3398	829	0.39	873	0.43	917	0.48	959	0.53	1000	0.58	1040	0.63	1079	0.68	1117	0.73	—	—	—	—	—	—
3568	866	0.45	908	0.49	950	0.54	991	0.59	1030	0.64	1069	0.69	1106	0.75	1144	0.80	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (kW) = 3.15 x kW.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Important: *See fan motor values in Table 89, p. 87 - Table 92, p. 89.*

Table 77. Evaporator fan performance — TWE076D — air handler (IP)

External Static Pressure (Inches of Water Gauge)																						
	0.10"		0.20"		0.30"		0.40"		0.50"		0.60"		0.70"		0.80"		0.90"		1.00"		1.10"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			1 HP Standard Motor						1.5 HP High Static Motor								2 HP Ultra High Static Motor					
2000	—	—	522	0.34	590	0.44	654	0.52	711	0.62	768	0.73	821	0.84	870	0.95	916	1.06	959	1.16	1001	1.27
2125	—	—	537	0.39	604	0.48	664	0.58	721	0.68	775	0.78	828	0.90	877	1.01	923	1.13	966	1.25	1009	1.36
2250	481	0.33	553	0.44	617	0.53	675	0.64	731	0.74	784	0.84	834	0.96	884	1.09	929	1.21	973	1.33	1016	1.46
2375	501	0.39	569	0.49	631	0.59	688	0.70	742	0.81	794	0.91	842	1.03	891	1.16	937	1.29	981	1.42	1022	1.55
2500	521	0.47	585	0.55	646	0.65	701	0.77	754	0.89	804	0.99	852	1.11	898	1.23	944	1.37	987	1.51	1028	1.64
2625	540	0.53	602	0.61	661	0.72	715	0.84	767	0.97	816	1.08	862	1.19	908	1.32	950	1.45	994	1.60	1036	1.74
2750	559	0.60	619	0.66	677	0.80	729	0.91	780	1.05	827	1.17	872	1.29	916	1.41	960	1.55	1001	1.69	1043	1.84
2875	579	0.67	636	0.72	692	0.88	744	1.00	793	1.13	840	1.27	885	1.40	928	1.52	969	1.65	1009	1.79	1049	1.94
3000	599	0.74	654	0.79	709	0.96	760	1.09	807	1.22	852	1.36	896	1.51	939	1.63	980	1.76	1019	1.90	1057	2.05

External Static Pressure (Inches of Water Gauge)												
	1.20"		1.30"		1.40"		1.50"		1.60"		1.70"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	2 HP Ultra High Static Motor											
2000	1040	1.38	1080	1.50	1116	1.61	—	—	—	—	—	—
2125	1048	1.48	1085	1.59	1123	1.71	—	—	—	—	—	—
2250	1054	1.58	1093	1.70	—	—	—	—	—	—	—	—
2375	1062	1.68	1099	1.80	—	—	—	—	—	—	—	—
2500	1068	1.78	1107	1.92	—	—	—	—	—	—	—	—
2625	1075	1.88	1113	2.02	—	—	—	—	—	—	—	—
2750	1083	1.99	—	—	—	—	—	—	—	—	—	—
2875	1090	2.10	—	—	—	—	—	—	—	—	—	—
3000	1097	2.21	—	—	—	—	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (MBh) = 3.15 x BHP.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Important: *See fan motor values in Table 89, p. 87 - Table 92, p. 89.*

Table 78. Evaporator fan performance — TWE076D — air handler (SI)

External Static Pressure (Inches of Water Gauge)																								
	25		50		75		100		125		150		174		199		224		249		274	
m³/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
	.75 kW Standard Motor								1.12 kW High Static Motor								1.5 kW Ultra High Static Motor					
3398	—	0.18	522	0.25	590	0.33	654	0.39	711	0.46	768	0.54	821	0.62	870	0.71	916	0.79	959	0.87	1001	0.95
3611	—	0.21	537	0.29	604	0.36	664	0.43	721	0.50	775	0.58	828	0.67	877	0.76	923	0.84	966	0.93	1009	1.02
3823	481	0.24	553	0.32	617	0.40	675	0.48	731	0.55	784	0.63	834	0.72	884	0.81	929	0.90	973	0.99	1016	1.09
4036	501	0.29	569	0.36	631	0.44	688	0.53	742	0.60	794	0.68	842	0.77	891	0.87	937	0.96	981	1.06	1022	1.15
4248	521	0.35	585	0.41	646	0.49	701	0.57	754	0.66	804	0.74	852	0.83	898	0.92	944	1.02	987	1.12	1028	1.22
4460	540	0.40	602	0.46	661	0.54	715	0.62	767	0.72	816	0.81	862	0.89	908	0.99	950	1.08	994	1.19	1036	1.30
4673	559	0.45	619	0.50	677	0.59	729	0.68	780	0.78	827	0.88	872	0.96	916	1.05	960	1.15	1001	1.26	1043	1.37
4885	579	0.50	636	0.54	692	0.65	744	0.74	793	0.84	840	0.95	885	1.04	928	1.13	969	1.23	1009	1.33	1049	1.45
5098	599	0.55	654	0.59	709	0.72	760	0.81	807	0.91	852	1.02	896	1.12	939	1.22	980	1.32	1019	1.42	1057	1.53

External Static Pressure (Inches of Water Gauge)						
	299		324		349	
m³/hr	RPM	kW	RPM	kW	RPM	kW
	1.5 kW Ultra High Static Motor					
3398	1040	1.03	1080	1.12	1116	1.20
3611	1048	1.10	1085	1.19	1123	1.28
3823	1054	1.18	1093	1.27	—	—
4036	1062	1.25	1099	1.35	—	—
4248	1068	1.33	1107	1.43	—	—
4460	1075	1.40	1113	1.51	—	—
4673	1083	1.49	—	—	—	—
4885	1090	1.57	—	—	—	—
5098	1097	1.65	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (kW) = 3.15 x kW.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Important: *See fan motor values in Table 89, p. 87 - Table 92, p. 89.*

Table 79. Evaporator fan performance — TWE101D,E — air handler (IP)

External Static Pressure (Inches of Water Gauge)																						
	0.10"		0.20"		0.30"		0.40"		0.50"		0.60"		0.70"		0.80"		0.90"		1.00"		1.10"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	1.5 HP Standard Motor														2 HP High Static Motor							
2600	—	—	—	—	523	0.53	563	0.61	601	0.69	638	0.75	673	0.83	707	0.91	739	0.99	772	1.08	802	1.17
2775	—	—	499	0.55	541	0.62	580	0.69	617	0.78	653	0.86	687	0.93	719	1.01	750	1.09	782	1.18	812	1.27
2950	—	—	519	0.63	560	0.71	598	0.79	634	0.87	668	0.96	701	1.05	732	1.12	763	1.21	793	1.30	822	1.39
3125	499	0.70	540	0.71	579	0.82	616	0.90	651	0.98	684	1.08	716	1.17	747	1.26	777	1.34	805	1.42	834	1.52
3300	522	0.81	561	0.81	600	0.94	635	1.02	669	1.10	701	1.20	731	1.30	762	1.40	791	1.49	819	1.57	847	1.66
3475	545	0.93	582	0.93	620	1.07	654	1.15	687	1.24	718	1.33	748	1.43	777	1.54	806	1.65	834	1.74	860	1.83
3650	568	1.05	604	1.09	640	1.18	674	1.30	706	1.39	736	1.48	766	1.58	794	1.69	821	1.81	848	1.91	874	2.01
3825	592	1.19	628	1.27	661	1.30	694	1.46	725	1.55	754	1.65	783	1.75	810	1.85	838	1.98	864	2.09	890	2.20
4000	615	1.34	652	1.47	682	1.45	714	1.63	745	1.73	774	1.83	801	1.93	829	2.04	855	2.16	880	2.28	—	—

External Static Pressure (Inches of Water Gauge)																
	1.20"		1.30"		1.40"		1.50"		1.60"		1.70"		1.80"		1.90"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	2 HP High Static Motor w/ Field Supplied Sheave & Belt															
2600	832	1.25	860	1.34	887	1.43	914	1.52	939	1.6	964	1.69	988	1.77	1011	1.86
2775	841	1.37	870	1.46	897	1.56	923	1.65	949	1.74	973	1.83	997	1.93	1020	2.02
2950	851	1.49	879	1.59	906	1.69	932	1.79	958	1.89	983	1.99	1006	2.08	1030	2.18
3125	861	1.61	889	1.72	916	1.82	943	1.93	967	2.04	992	2.14	1016	2.25	1040	2.36
3300	873	1.76	900	1.86	926	1.97	951	2.08	977	2.19	1002	2.31	—	—	—	—
3475	886	1.92	912	2.02	938	2.13	962	2.24	—	—	—	—	—	—	—	—
3650	900	2.10	926	2.20	950	2.31	—	—	—	—	—	—	—	—	—	—
3825	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (MBh) = 3.15 x BHP.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Important: *See fan motor values in Table 89, p. 87 - Table 92, p. 89.*

Table 80. Evaporator fan performance — TWE101D,E — air handler (SI)

External Static Pressure (Inches of Water Gauge)																						
	25		50		75		100		125		150		174		199		224		249		274	
m^3/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
					1.12 kW Standard Motor										1.12 kW High Static Motor							
4418	—	—	—	—	523	0.40	563	0.45	601	0.51	638	0.56	673	0.62	707	0.68	739	0.74	772	0.80	802	0.87
4715	—	—	499	0.41	541	0.46	580	0.52	617	0.58	653	0.64	687	0.69	719	0.75	750	0.81	782	0.88	812	0.95
5013	—	—	519	0.47	560	0.53	598	0.59	634	0.65	668	0.72	701	0.78	732	0.84	763	0.90	793	0.97	822	1.03
5310	499	0.52	540	0.53	579	0.61	616	0.67	651	0.73	684	0.80	716	0.88	747	0.94	777	1.00	805	1.06	834	1.13
5607	522	0.60	561	0.60	600	0.70	635	0.76	669	0.82	701	0.89	731	0.97	762	1.04	791	1.11	819	1.17	847	1.24
5905	545	0.69	582	0.70	620	0.80	654	0.86	687	0.92	718	0.99	748	1.07	777	1.15	806	1.23	834	1.30	860	1.36
6202	568	0.79	604	0.81	640	0.88	674	0.97	706	1.03	736	1.10	766	1.18	794	1.26	821	1.35	848	1.43	874	1.50
6499	592	0.89	628	0.95	661	0.97	694	1.09	725	1.16	754	1.23	783	1.30	810	1.38	838	1.47	864	1.56	890	1.64
6797	615	1.00	652	1.10	682	1.08	714	1.22	745	1.29	774	1.36	801	1.44	829	1.52	855	1.61	880	1.70	905	1.79

External Static Pressure (Inches of Water Gauge)																
	299		324		349		374		398		423		448		473	
m^3/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
	1.12 kW High Static Motor w/ Field Supplied Sheave & Belt															
4418	832	0.93	860	1.00	887	1.06	914	1.13	939	1.19	964	1.26	988	1.32	1011	1.39
4715	841	1.02	870	1.09	897	1.16	923	1.23	949	1.30	973	1.37	997	1.44	1020	1.50
5013	851	1.11	879	1.18	906	1.26	932	1.33	958	1.41	983	1.48	1006	1.55	1030	1.63
5310	861	1.20	889	1.28	916	1.36	943	1.44	967	1.52	992	1.60	1016	1.68	1040	1.76
5607	873	1.31	900	1.39	926	1.47	951	1.55	977	1.63	1002	1.72	—	—	—	—
5905	886	1.43	912	1.51	938	1.59	962	1.67	986	1.75	—	—	—	—	—	—
6202	900	1.57	926	1.64	950	1.72	975	1.81	998	1.89	—	—	—	—	—	—
6499	915	1.72	939	1.79	963	1.87	987	1.95	1010	2.04	—	—	—	—	—	—
6797	929	1.88	953	1.96	977	2.03	1000	2.11	1023	2.20	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (kW) = 3.15 x kW.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Important: *See fan motor values in Table 89, p. 87 - Table 92, p. 89.*

Table 81. Evaporator fan performance —TWE126E — air handler (IP)

	External Static Pressure (Inches of Water Gauge)																			
	0.10"		0.20"		0.30"		0.40"		0.50"		0.60"		0.70"		0.80"		0.90"		1.00"		1.10"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
					1.5 HP Standard Motor								1.5 HP Standard Motor w/ Field Supplied Sheave & Belt						2 HP High Static Motor			
3200	—	—	—	—	515	0.51	565	0.63	601	0.71	638	0.81	678	0.93	718	1.06	759	1.21	794	1.35	826	1.49
3400	—	—	472	0.46	528	0.57	578	0.69	617	0.80	650	0.89	686	1.00	724	1.13	762	1.27	800	1.42	834	1.57
3600	—	—	486	0.51	541	0.63	590	0.76	633	0.89	666	0.98	697	1.08	732	1.20	767	1.34	804	1.49	840	1.65
3800	—	—	500	0.57	554	0.70	601	0.82	646	0.97	682	1.09	712	1.19	742	1.29	776	1.43	810	1.57	843	1.72
4000	—	—	515	0.64	567	0.78	614	0.91	658	1.05	698	1.20	728	1.31	756	1.41	786	1.53	817	1.66	849	1.82
4200	477	0.58	531	0.71	581	0.85	627	1.00	669	1.13	710	1.29	744	1.43	772	1.55	799	1.65	827	1.78	858	1.93
4400	494	0.65	546	0.79	595	0.94	640	1.09	682	1.23	722	1.39	758	1.55	789	1.69	814	1.80	840	1.92	867	2.05
4600	513	0.73	563	0.87	609	1.03	653	1.19	695	1.34	732	1.48	771	1.66	804	1.83	831	1.96	856	2.08	880	2.20
4800	531	0.82	579	0.96	624	1.13	667	1.29	707	1.45	745	1.60	783	1.77	817	1.96	847	2.12	872	2.25	896	2.37

	External Static Pressure (Inches of Water Gauge)											
	1.20"		1.30"		1.40"		1.50"		1.60"		1.70"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	2 HP High Static Motor				3 HP Ultra High Static Motor							
3200	857	1.63	887	1.78	916	1.93	943	2.08	970	2.23	996	2.39
3400	865	1.72	895	1.88	924	2.03	952	2.19	978	2.35	1003	2.50
3600	873	1.81	903	1.97	931	2.13	959	2.29	986	2.46	1012	2.62
3800	877	1.89	912	2.08	940	2.24	967	2.41	994	2.58	—	—
4000	882	1.98	915	2.16	947	2.34	976	2.53	1002	2.70	—	—
4200	888	2.08	919	2.25	950	2.44	980	2.63	1010	2.82	—	—
4400	896	2.20	925	2.37	955	2.55	985	2.73	1013	2.92	—	—
4600	906	2.34	934	2.50	961	2.67	989	2.85	—	—	—	—
4800	918	2.50	944	2.65	970	2.81	996	2.98	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (MBh) = 3.15 x BHP.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Important: *See fan motor values in Table 89, p. 87 - Table 92, p. 89.*

Table 82. Evaporator fan performance — TWE126E — air handler (SI)

External Static Pressure (Inches of Water Gauge)																						
	25		50		75		100		125		150		174		199		224		249		274	
m³/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
					1.12 kW Standard Motor								1.12 kW Standard Motor w/ Field Supplied Sheave & Belt						1.49 kW High Static Motor			
5437	—	—	—	—	515	0.38	565	0.47	601	0.53	638	0.60	678	0.69	718	0.79	759	0.90	794	1.01	826	1.11
5777	—	—	472	0.34	528	0.42	578	0.52	617	0.60	650	0.66	686	0.74	724	0.84	762	0.94	800	1.06	834	1.17
6117	—	—	486	0.38	541	0.47	590	0.56	633	0.66	666	0.73	697	0.81	732	0.90	767	1.00	804	1.11	840	1.23
6457	—	—	500	0.43	554	0.52	601	0.61	646	0.72	682	0.81	712	0.89	742	0.97	776	1.06	810	1.17	843	1.29
6797	—	—	515	0.48	567	0.58	614	0.68	658	0.78	698	0.89	728	0.98	756	1.05	786	1.14	817	1.24	849	1.35
7137	477	0.43	531	0.53	581	0.64	627	0.74	669	0.84	710	0.96	744	1.07	772	1.15	799	1.23	827	1.33	858	1.44
7476	494	0.48	546	0.59	595	0.70	640	0.81	682	0.92	722	1.03	758	1.16	789	1.26	814	1.34	840	1.43	867	1.53
7816	513	0.54	563	0.65	609	0.77	653	0.88	695	1.00	732	1.10	771	1.24	804	1.36	831	1.46	856	1.55	880	1.64
8156	531	0.61	579	0.72	624	0.84	667	0.96	707	1.08	745	1.19	783	1.32	817	1.46	847	1.58	872	1.68	896	1.77

External Static Pressure (Inches of Water Gauge)												
	299		324		349		374		398		423	
m³/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
	1.49 kW High Static Motor				2.24 kW Ultra High Static Motor							
5437	857	1.22	887	1.33	916	1.44	943	1.55	970	1.66	996	1.78
5777	865	1.29	895	1.40	924	1.51	952	1.63	978	1.75	1003	1.87
6117	873	1.35	903	1.47	931	1.59	959	1.71	986	1.83	1012	1.96
6457	877	1.41	912	1.55	940	1.67	967	1.80	994	1.92	—	—
6797	882	1.48	915	1.61	947	1.75	976	1.88	1002	2.01	—	—
7137	888	1.55	919	1.68	950	1.82	980	1.96	1010	2.11	—	—
7476	896	1.64	925	1.76	955	1.90	985	2.04	1013	2.18	—	—
7816	906	1.74	934	1.86	961	1.99	989	2.12	—	—	—	—
8156	918	1.86	944	1.97	970	2.10	996	2.22	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (kW) = 3.15 x kW.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Important: *See fan motor values in Table 89, p. 87 - Table 92, p. 89.*

Table 83. Evaporator fan performance —TWE156E — air handler (IP)

External Static Pressure (Inches of Water Gauge)																						
	0.10"		0.20"		0.30"		0.40"		0.50"		0.60"		0.70"		0.80"		0.90"		1.00"		1.10"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
					2 HP Standard Motor w/ Field Supplied Sheave & Belt								1.5 HP Standard Motor w/ Field Supplied Sheave & Belt						2 HP High Static Motor			
4000	428	0.5	482	0.62	531	0.72	576	0.84	621	0.98	663	1.11	701	1.25	737	1.38	771	1.51	803	1.64	833	1.77
4250	448	0.58	499	0.71	546	0.82	590	0.94	633	1.08	674	1.22	712	1.37	748	1.51	782	1.65	814	1.79	845	1.93
4500	468	0.68	517	0.81	563	0.93	605	1.05	646	1.19	686	1.34	724	1.50	760	1.65	793	1.80	825	1.95	855	2.09
4750	488	0.78	535	0.91	579	1.06	621	1.18	660	1.32	698	1.46	735	1.63	772	1.79	805	1.95	837	2.11	867	2.27
5000	509	0.90	554	1.03	596	1.19	637	1.32	675	1.46	712	1.61	748	1.77	783	1.94	817	2.11	848	2.28	878	2.44
5250	530	1.02	573	1.16	614	1.32	653	1.47	691	1.61	726	1.76	760	1.92	795	2.10	828	2.28	859	2.45	890	2.64
5500	551	1.16	593	1.31	632	1.47	670	1.64	706	1.78	741	1.93	774	2.09	807	2.26	840	2.46	871	2.64	902	2.83
5750	572	1.32	612	1.47	651	1.63	687	1.81	722	1.97	757	2.12	789	2.28	821	2.45	852	2.64	883	2.84	912	3.03
6000	593	1.48	632	1.64	670	1.81	705	1.99	739	2.17	772	2.32	804	2.48	835	2.66	865	2.84	895	3.04	924	3.24

External Static Pressure (Inches of Water Gauge)												
	1.20"		1.30"		1.40"		1.50"		1.60"		1.70"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	2 HP High Static Motor				3 HP Ultra High Static Motor							
4000	863	1.9	891	2.03	919	2.15	944	2.28	970	2.40	994	2.53
4250	874	2.07	902	2.20	928	2.33	955	2.47	981	2.61	1004	2.74
4500	884	2.24	913	2.38	939	2.53	966	2.68	991	2.82	1015	2.96
4750	895	2.42	924	2.58	951	2.74	977	2.88	1002	3.04	—	—
5000	907	2.61	934	2.77	962	2.94	—	—	—	—	—	—
5250	918	2.81	946	2.98	973	3.16	—	—	—	—	—	—
5500	931	3.02	958	3.20	—	—	—	—	—	—	—	—
5750	941	3.23	—	—	—	—	—	—	—	—	—	—
6000	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (MBh) = 3.15 x BHP.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Important: *See fan motor values in Table 89, p. 87 - Table 92, p. 89.*

Table 84. Evaporator fan performance — TWE156E — air handler (SI)

External Static Pressure (Inches of Water Gauge)																						
	25		50		75		100		125		150		174		199		224		249		274	
m³/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
	1.49 kW Standard Motor w/ Field Supplied Sheave & Belt						1.49 kW Standard Motor						2.24 kW High Static Motor									
6797	428	0.37	482	0.46	531	0.54	576	0.63	621	0.73	663	0.83	701	0.93	737	1.03	771	1.13	803	1.22	833	1.32
7222	448	0.43	499	0.53	546	0.61	590	0.70	633	0.80	674	0.91	712	1.02	748	1.13	782	1.23	814	1.33	845	1.44
7646	468	0.50	517	0.60	563	0.70	605	0.79	646	0.89	686	1.00	724	1.12	760	1.23	793	1.34	825	1.45	855	1.56
8071	488	0.58	535	0.68	579	0.79	621	0.88	660	0.98	698	1.09	735	1.21	772	1.34	805	1.46	837	1.57	867	1.69
8496	509	0.67	554	0.77	596	0.88	637	0.99	675	1.09	712	1.20	748	1.32	783	1.45	817	1.58	848	1.70	878	1.82
8921	530	0.76	573	0.87	614	0.99	653	1.10	691	1.20	726	1.31	760	1.43	795	1.57	828	1.70	859	1.83	890	1.97
9346	551	0.87	593	0.97	632	1.10	670	1.22	706	1.33	741	1.44	774	1.56	807	1.69	840	1.83	871	1.97	902	2.11
9770	572	0.98	612	1.09	651	1.22	687	1.35	722	1.47	757	1.58	789	1.70	821	1.83	852	1.97	883	2.11	912	2.26
10195	593	1.11	632	1.22	670	1.35	705	1.49	739	1.61	772	1.73	804	1.85	835	1.98	865	2.12	895	2.27	924	2.42

External Static Pressure (Inches of Water Gauge)												
	299		324		349		374		398		423	
m³/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
	2.24 kW High Static Motor w/ Field Supplied Sheave & Belt											
6797	863	1.42	891	1.51	919	1.61	944	1.70	970	1.79	994	1.88
7222	874	1.54	902	1.64	928	1.74	955	1.84	981	1.95	1004	2.04
7646	884	1.67	913	1.78	939	1.88	966	2.00	991	2.10	1015	2.21
8071	895	1.80	924	1.92	951	2.04	977	2.15	1002	2.26	—	—
8496	907	1.95	934	2.07	962	2.19	—	—	—	—	—	—
8921	918	2.09	946	2.22	973	2.35	—	—	—	—	—	—
9346	931	2.25	958	2.39	—	—	—	—	—	—	—	—
9770	941	2.41	—	—	—	—	—	—	—	—	—	—
10195	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (kW) = 3.15 x kW.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Important: *See fan motor values in Table 89, p. 87 - Table 92, p. 89.*

Table 85. Evaporator fan performance —TWE201E — air handler (IP)

External Static Pressure (Inches of Water Gauge)																						
	0.10"		0.20"		0.30"		0.40"		0.50"		0.60"		0.70"		0.80"		0.90"		1.00"		1.10"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			2 HP Low Static Motor										3 HP Standard Motor								3 HP Standard Motor w/ Field Supplied Sheave & Belt	
5200	—	—	531	0.83	580	0.96	627	1.09	666	1.21	707	1.37	748	1.54	787	1.71	825	1.88	864	2.06	902	2.24
5525	—	—	551	0.96	599	1.10	644	1.23	684	1.37	722	1.51	760	1.68	799	1.87	834	2.04	872	2.23	909	2.42
5850	—	—	572	1.10	619	1.25	662	1.39	703	1.54	738	1.68	774	1.84	810	2.02	846	2.22	880	2.40	916	2.60
6175	543	1.11	593	1.26	638	1.42	680	1.57	720	1.72	757	1.87	790	2.02	824	2.20	859	2.40	893	2.61	926	2.81
6500	566	1.28	614	1.43	659	1.61	699	1.77	737	1.92	775	2.08	807	2.24	839	2.40	871	2.59	904	2.80	936	3.02
6825	590	1.47	636	1.62	679	1.80	718	1.98	755	2.14	792	2.31	826	2.48	857	2.64	886	2.81	918	3.02	950	3.25
7150	614	1.67	658	1.83	700	2.02	738	2.21	774	2.38	809	2.55	844	2.73	875	2.90	903	3.07	932	3.26	962	3.47
7475	638	1.89	680	2.06	720	2.25	758	2.45	794	2.63	827	2.81	861	2.99	893	3.18	921	3.36	949	3.54	976	3.73
7800	662	2.13	702	2.31	742	2.50	779	2.71	814	2.91	846	3.09	879	3.28	910	3.48	940	3.67	967	3.86	993	4.04

External Static Pressure (Inches of Water Gauge)																
	1.20"		1.30"		1.40"		1.50"		1.60"		1.70"		1.80"		1.90"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	3 HP Standard Motor w/ Field Supplied Sheave & Belt		5 HP Ultra High Static Motor								5 HP Ultra High Static Motor w/ Field Supplied Sheave & Belt					
5200	937	2.42	972	2.59	1004	2.77	1036	2.95	1066	3.12	1095	3.29	1125	3.46	1152	3.63
5525	943	2.60	978	2.80	1012	2.99	1042	3.17	1072	3.35	1102	3.54	1132	3.73	1159	3.91
5850	951	2.80	984	3.00	1018	3.21	1050	3.41	1080	3.60	1109	3.80	1138	4.00	1166	4.19
6175	958	3.00	992	3.22	1024	3.43	1056	3.64	1086	3.86	1115	4.06	1143	4.27	—	—
6500	967	3.22	998	3.44	1030	3.65	1063	3.89	1093	4.11	1122	4.33	1151	4.56	—	—
6825	980	3.47	1010	3.69	1039	3.90	1069	4.13	1098	4.36	1129	4.61	1158	4.85	—	—
7150	991	3.70	1021	3.94	1051	4.18	1078	4.41	1107	4.65	1135	4.88	1165	5.14	—	—
7475	1005	3.97	1034	4.21	1062	4.46	1090	4.71	1117	4.94	1144	5.19	—	—	—	—
7800	1019	4.24	1047	4.49	1074	4.74	1102	5.01	1128	5.25	1154	5.51	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (MBh) = 3.15 x BHP.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Important: *See fan motor values in Table 89, p. 87 - Table 92, p. 89.*

Table 86. Evaporator fan performance — TWE201E — air handler (SI)

External Static Pressure (Inches of Water Gauge)																						
	25		50		75		100		125		150		174		199		224		249		274	
m^3/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
			1.49 kW Low Static Motor										2.24 kW Standard Motor						2.24 kW Standard Motor w/ Field Supplied Sheave & Belt			
8836	—	—	531	0.62	580	0.71	627	0.81	666	0.90	707	1.02	748	1.15	787	1.27	825	1.40	864	1.54	902	1.67
9388	—	—	551	0.72	599	0.82	644	0.92	684	1.02	722	1.12	760	1.25	799	1.39	834	1.52	872	1.66	909	1.80
9940	—	—	572	0.82	619	0.94	662	1.04	703	1.15	738	1.25	774	1.37	810	1.51	846	1.65	880	1.79	916	1.94
10493	543	0.83	593	0.94	638	1.06	680	1.17	720	1.29	757	1.40	790	1.51	824	1.64	859	1.79	893	1.94	926	2.09
11045	566	0.95	614	1.07	659	1.20	699	1.32	737	1.43	775	1.55	807	1.67	839	1.79	871	1.93	904	2.09	936	2.25
11597	590	1.09	636	1.21	679	1.34	718	1.48	755	1.59	792	1.72	826	1.85	857	1.97	886	2.09	918	2.25	950	2.42
12149	614	1.25	658	1.37	700	1.50	738	1.65	774	1.77	809	1.90	844	2.03	875	2.16	903	2.29	932	2.43	962	2.59
12702	638	1.41	680	1.54	720	1.68	758	1.83	794	1.96	827	2.09	861	2.23	893	2.37	921	2.51	949	2.64	976	2.79
13254	662	1.59	702	1.72	742	1.86	779	2.02	814	2.17	846	2.31	879	2.45	910	2.59	940	2.74	967	2.88	993	3.02

External Static Pressure (Inches of Water Gauge)														
	299		324		349		374		398		423		448	
m^3/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
	3.73 kW Ultra High Static Motor				3.73 kW Ultra High Static Motor w/ Field Supplied Sheave & Belt									
8836	937	1.80	972	1.94	1004	2.07	1036	2.20	1066	2.33	1095	2.45	1125	2.58
9388	943	1.94	978	2.09	1012	2.23	1042	2.36	1072	2.50	1102	2.64	1132	2.78
9940	951	2.09	984	2.24	1018	2.39	1050	2.54	1080	2.69	1109	2.83	—	—
10493	958	2.24	992	2.40	1024	2.56	1056	2.72	1086	2.88	1115	3.03	—	—
11045	967	2.40	998	2.56	1030	2.73	1063	2.90	1093	3.07	1122	3.23	—	—
11597	980	2.59	1010	2.75	1039	2.91	1069	3.08	1098	3.26	1129	3.44	—	—
12149	991	2.76	1021	2.94	1051	3.12	1078	3.29	1107	3.47	—	—	—	—
12702	1005	2.96	1034	3.14	1062	3.32	1090	3.51	1117	3.69	—	—	—	—
13254	1019	3.17	1047	3.35	1074	3.54	1102	3.74	1128	3.92	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (kW) = 3.15 x kW.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Important: *See fan motor values in Table 89, p. 87 - Table 92, p. 89.*

Table 87. Evaporator fan performance — TWE251E — air handler (IP)

External Static Pressure (Inches of Water Gauge)																						
	0.10"		0.20"		0.30"		0.40"		0.50"		0.60"		0.70"		0.80"		0.90"		1.00"		1.10"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
					5 HP Standard Motor & Low Static Drive Field Installed Sheaves										5 HP Standard Motor & Drive							
6500	—	—	—	—	618	1.50	657	1.71	693	1.95	735	2.25	774	2.56	806	2.83	835	3.09	864	3.32	894	3.55
7000	—	—	610	1.56	648	1.77	685	2.00	719	2.23	754	2.49	793	2.83	830	3.17	860	3.46	887	3.73	914	4.00
7500	604	1.64	642	1.86	679	2.08	714	2.31	748	2.55	779	2.81	812	3.11	848	3.46	883	3.83	913	4.16	939	4.45
8000	639	1.96	676	2.19	710	2.42	743	2.67	776	2.92	807	3.18	836	3.46	868	3.79	902	4.17	935	4.57	965	4.93
8500	674	2.33	709	2.57	742	2.81	774	3.07	804	3.33	835	3.60	863	3.88	890	4.17	920	4.53	953	4.93	985	5.35
9000	709	2.73	743	2.98	775	3.24	805	3.51	834	3.78	863	4.06	891	4.35	918	4.65	944	4.97	972	5.34	—	—
9500	745	3.18	777	3.44	808	3.72	837	4.00	865	4.28	892	4.57	920	4.88	946	5.18	971	5.50	—	—	—	—
10000	780	3.68	812	3.95	841	4.25	869	4.53	896	4.83	922	5.13	949	5.45	—	—	—	—	—	—	—	—
10500	816	4.23	846	4.52	875	4.82	902	5.13	927	5.43	953	5.74	—	—	—	—	—	—	—	—	—	—

External Static Pressure (Inches of Water Gauge)																
	1.20"		1.30"		1.40"		1.50"		1.60"		1.70"		1.80"		1.90"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	5 HP Standard Motor & High Static Drive Field Installed Sheaves															
6500	923	3.78	952	4.03	982	4.28	1012	4.55	1042	4.82	1071	5.09	1099	5.37	1129	5.67
7000	941	4.24	969	4.49	997	4.75	1023	5.01	1051	5.29	1079	5.57	—	—	—	—
7500	964	4.74	989	5.01	1015	5.28	1041	5.55	—	—	—	—	—	—	—	—
8000	990	5.25	1013	5.55	—	—	—	—	—	—	—	—	—	—	—	—
8500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (MBh) = 3.15 x BHP.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Important: *See fan motor values in Table 89, p. 87 - Table 92, p. 89.*

Table 88. Evaporator fan performance — TWE251E — air handler (SI)

	External Static Pressure (Inches of Water Gauge)																					
	25		50		75		100		125		150		174		199		224		249		274	
m^3/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
					3.73 kW Standard Motor w/ Low Static Drive Field Installed Sheaves				3.73 kW Standard Motor & Drive													
11044	—	—	—	—	618	1.12	657	1.28	693	1.45	735	1.68	774	1.91	806	2.11	835	2.30	864	2.47	894	2.65
11893	—	—	610	1.17	648	1.32	685	1.49	719	1.66	754	1.86	793	2.11	830	2.36	860	2.58	887	2.78	914	2.98
12742	604	1.23	642	1.39	679	1.55	714	1.72	748	1.90	779	2.09	812	2.32	848	2.58	883	2.86	913	3.10	939	3.32
13592	639	1.47	676	1.64	710	1.81	743	1.99	776	2.18	807	2.37	836	2.58	868	2.82	902	3.11	935	3.40	965	3.68
14441	674	1.74	709	1.91	742	2.10	774	2.29	804	2.48	835	2.68	863	2.89	890	3.11	920	3.38	953	3.68	985	3.99
15291	709	2.04	743	2.22	775	2.42	805	2.61	834	2.82	863	3.03	891	3.24	918	3.47	944	3.71	972	3.98	—	—
16140	745	2.37	777	2.57	808	2.78	837	2.98	865	3.19	892	3.41	920	3.64	946	3.86	971	4.10	—	—	—	—
16990	780	2.75	812	2.95	841	3.17	869	3.38	896	3.60	922	3.83	949	4.06	—	—	—	—	—	—	—	—
17840	816	3.16	846	3.37	875	3.60	902	3.82	927	4.05	953	4.28	—	—	—	—	—	—	—	—	—	—

	External Static Pressure (Inches of Water Gauge)															
	299		324		349		374		398		423		448		473	
m^3/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
	3.73 kW Standard Motor w/ High Static Drive Field Installed Sheaves															
11044	923	2.82	952	3.00	982	3.19	1012	3.39	1042	3.59	1071	3.80	1099	4.00	1129	4.22
11893	941	3.16	969	3.35	997	3.54	1023	3.73	1051	3.94	1079	4.15	—	—	—	—
12742	964	3.54	989	3.73	1015	3.94	1041	4.14	—	—	—	—	—	—	—	—
13592	990	3.91	1013	4.14	—	—	—	—	—	—	—	—	—	—	—	—
14441	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15291	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16140	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16990	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17840	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (kW) = 3.15 x kW.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Important: *See fan motor values in Table 89, p. 87 - Table 92, p. 89.*

Table 89. Low static fan motors - standard air handlers

Model	Motor	Motor Sheave Turns Open	Nominal RPM	Required Field Supplied Components		
				Motor Sheave	Blower Sheave	Belt
TWE156	Standard Motor with Field Supplied Components 2 HP (1.5 kW)	0 1 2 3 4 5	541 511 464 417 370 391	Variable Pitch (2.4 - 3.4 Inch Pitch Diameter), 0.875 Inch Bore, Single Groove, Browning 1VL40	Fixed Pitch (9.5 Inch Pitch Diameter), 1.4375 Inch Bore, Single Groove, Browning BK105	Browning AX59
TWE201	Low Static Motor 2 HP (1.5 kW)	0 1 2 3 4 5	712 677 641 605 569 533	N/A	N/A	N/A
TWE251	Standard Motor with Field Supplied Components 5 HP (3.75 kW)	1 2 3 4 5 6	780 742 704 666 628 590	Variable Pitch (3.1 - 4.1 Inch Pitch Diameter), 1.125 Inch Bore, Single Groove, Browning 1VL44	Fixed Pitch (15.4 Inch Pitch Diameter), 1.4375 Inch Bore, Single Groove, Browning BK160	Browning BX70

Table 90. Standard fan motors - standard air handlers

Model	Motor	Motor Sheave Turns Open	Nominal RPM	Required Field Supplied Components		
				Motor Sheave	Blower Sheave	Belt
TWE051	Standard Motor .5 HP (.38 kW)	0 1 2 3 4 5	892 833 773 714 654 595	N/A	N/A	N/A
TWE076	Standard Motor 1 HP (.75 kW)	0 1 2 3 4 5	706 659 612 565 518 471	N/A	N/A	N/A
TWE101	Standard Motor 1.5 HP (1.13 kW)	0 1 2 3 4 5	682 644 606 568 530 492	N/A	N/A	N/A
TWE126	Standard Motor 1.5 HP (1.13 kW)	0 1 2 3 4 5	640 604 569 533 498 462	N/A	N/A	N/A

Table 90. Standard fan motors - standard air handlers (continued)

Model	Motor	Motor Sheave Turns Open	Nominal RPM	Required Field Supplied Components		
				Motor Sheave	Blower Sheave	Belt
TWE156	Standard Motor 2 HP (1.5 kW)	0	704	N/A	N/A	N/A
		1	676			
		2	648			
		3	620			
		4	592			
		5	565			
		6	537			
TWE201	Standard Motor 3 HP (2.25 kW)	0	805	N/A	N/A	N/A
		1	777			
		2	749			
		3	721			
		4	693			
		5	665			
		6	637			
TWE251	Standard Motor 5 HP (3.75 kW)	1	896	N/A	N/A	N/A
		2	853			
		3	809			
		4	765			
		5	722			
		6	678			

Table 91. High static fan motors - standard air handlers

Model	Motor	Motor Sheave Turns Open	Nominal RPM	Required Field Supplied Components		
				Motor Sheave	Blower Sheave	Belt
TWE051	High Static Motor 1 HP (.75kW)	0	1122	N/A	N/A	N/A
		1	1066			
		2	1010			
		3	954			
		4	898			
		5	842			
TWE076	High Static Motor 1.5 HP (1.13 kW)	0	912	N/A	N/A	N/A
		1	866			
		2	820			
		3	775			
		4	729			
		5	683			
TWE101	High Static Motor 2 HP (1.5 kW)	0	810	N/A	N/A	N/A
		1	769			
		2	729			
		3	688			
		4	648			
		5	607			
TWE101	High Static Motor with Field Supplied Components 2 HP (1.5 kW)	0	941	Variable Pitch (2.8 - 3.8 Inch Pitch Diameter), 0.875 Inch Bore, Single Groove, Browning 1VP44	Fixed Pitch (6.0 Inch Pitch Diameter), 1.0 Inch Bore, Single Groove, Browning AK64	Browning A50
		1	894			
		2	847			
		3	800			
		4	753			
		5	706			

Table 91. High static fan motors - standard air handlers (continued)

Model	Motor	Motor Sheave Turns Open	Nominal RPM	Required Field Supplied Components		
				Motor Sheave	Blower Sheave	Belt
TWE126	Standard Motor with Field Supplied Components 1.5 HP (1.13 kW)	0 1 2 3 4 5	761 718 671 624 577 549	Variable Pitch (2.4 - 3.4 Inch Pitch Diameter), 0.875 Inch Bore, Single Groove, Browning 1VL40	Fixed Pitch (6.7 Inch Pitch Diameter), 1.4375 Inch Bore, Single Groove, Browning AK71	Browning A55
TWE126	High Static Motor 2 HP (1.5 kW)	0 1 2 3 4 5	912 866 825 785 744 683	N/A	N/A	N/A
TWE156	High Static Motor 3 HP (2.25 kW)	0 1 2 3 4 5 6	853 824 794 765 735 705 676	N/A	N/A	N/A
TWE156	High Static Motor with Field Supplied Components 3 HP (2.25 kW)	0 1 2 3 4 5 6	1014 979 932 885 838 803 803	Variable Pitch (3.4 - 4.4 Inch Pitch Diameter), 1.125 Inch Bore, Single Groove, Browning 1VP50	Fixed Pitch (6.6 Inch Pitch Diameter), 1.4375 Inch Bore, Single Groove, Browning BK72	Browning BX58
TWE201	Standard Motor with Field Supplied Components 3 HP (2.25 kW)	0 1 2 3 4 5 6	909 878 846 815 783 751 720	Variable Pitch (2.8 - 3.8 Inch Pitch Diameter), 1.125 Inch Bore, Single Groove, Browning 1VP50	Fixed Pitch (10.4 Inch Pitch Diameter), 1.4375 Inch Bore, Single Groove, Browning BK80	Browning BX62
TWE251	Standard Motor with Field Supplied Components 5 HP (3.75 kW)	— 1 2 3 4 5 6	— 1155 1099 1042 986 930 873	Variable Pitch (3.1 - 4.1 Inch Pitch Diameter), 1.125 Inch Bore, Single Groove, Browning 1VP50	Fixed Pitch (10.4 Inch Pitch Diameter), 1.4375 Inch Bore, Single Groove, Browning BK110	Browning BX62

Table 92. Ultra high static fan motors - standard air handlers

Model	Motor	Motor Sheave Turns Open	Nominal RPM	Required Field Supplied Components		
				Motor Sheave	Blower Sheave	Belt
TWE076	Ultra High Static Motor 2 HP (1.5 kW)	0 1 2 3 4 5 —	1122 1034 946 859 771 683 —	N/A	N/A	N/A
TWE126	Ultra High Static Motor 3 HP (2.25 kW)	0 1 2 3 4 5 6	1014 979 944 909 874 838 803	N/A	N/A	N/A

Table 92. Ultra high static fan motors - standard air handlers (continued)

Model	Motor	Motor Sheave Turns Open	Nominal RPM	Required Field Supplied Components		
				Motor Sheave	Blower Sheave	Belt
TWE201	Ultra High Static Motor 5 HP (3.75 kW)	0 1 2 3 4 5 6	1078 1036 993 950 907 864 822	N/A	N/A	N/A
TWE201	Ultra High Static Motor with Field Supplied Components 5 HP (3.75 kW)	0 1 2 3 4 5 6	1096 1067 1036 1004 973 941 926	Variable Pitch (2.8 - 3.8 Inch Pitch Diameter), 1.125 Inch Bore, Single Groove, Browning 1VP44	Fixed Pitch (10.4 Inch Pitch Diameter), 1.4375 Inch Bore, Single Groove, Browning BK110	Browning BX62

Table 93. Discharge plenum and grille assembly throw distance — air handler — ft (m)

Unit Model No.	CFM	m^3/h	Louver angle Deflection Position (ft)				Louver angle Deflection Position (m)			
			Straight	20°	40°	55°	Straight	20°	40°	55°
TWE051	1800	3060	46	37	29	22	14.0	11.3	8.8	6.7
	2000	3395	48	43	33	24	14.6	13.1	10.1	7.3
	2200	3737	51	50	36	25	15.5	15.2	11.0	7.6
	2400	4074	44	58	41	28	13.4	17.7	12.5	8.5
TWE076	2250	3823	51	41	33	28	15.4	12.4	10.0	8.6
	2500	4249	53	45	36	30	16.2	13.6	10.9	9.0
	2750	4671	56	49	39	31	16.9	14.9	11.9	9.4
	3000	5098	58	53	42	32	17.7	16.2	12.8	9.9
TWE101	3025	5139	57	44	36	32	17.4	13.4	10.8	9.6
	3350	5692	60	48	39	32	18.3	14.7	12.0	9.7
	3675	6245	63	52	43	33	19.3	16.0	13.2	10.0
	4000	6795	67	57	47	35	20.3	17.3	14.4	10.5
TWE126	3750	6370	44	27	25	38	13.4	8.1	7.5	11.7
	4200	7137	45	31	28	48	13.7	9.5	8.5	14.5
	4650	7902	47	36	31	57	14.3	10.9	9.5	17.4
	5100	8666	50	40	34	67	15.2	12.3	10.5	20.5
TWE156	4500	7644	46	34	30	22	14.1	10.5	9.2	6.6
	5000	8497	49	39	34	25	14.9	12.0	10.3	7.6
	5500	9346	53	45	37	28	16.2	13.6	11.4	8.5
	6000	10195	58	50	41	31	17.7	15.1	12.5	9.3
TWE201	6000	10195	53	43	36	28	16.0	13.1	10.9	8.6
	6680	11348	57	48	40	31	17.5	14.5	12.1	9.4
	7350	12488	62	52	44	33	18.8	16.0	13.3	10.0
	8030	13645	65	57	47	35	19.8	17.4	14.5	10.5
TWE251	7500	12742	62	52	44	33	18.8	16.0	13.3	10.0
	8350	14187	67	59	49	36	20.4	18.0	14.9	11.0
	9200	15631	73	65	54	40	22.3	19.8	16.5	12.2
	10050	17075	78	70	59	43	23.8	21.3	18.0	13.1

Note: Throw distance values are based on a terminal velocity of 75 fpm (0.38 m/s). Throw distance values at other terminal velocities may be established by multiplying throw distances in table above by throw factor as follows: for 50 FPM (0.25 m/s) terminal velocity, multiply by 1.50 throw factor; for 100 FPM (0.51 m/s) terminal velocity, multiply by 0.75 throw factor; for 150 FPM (0.76 m/s) terminal velocity, multiply by 0.50 throw factor.

Table 94. Static pressure drop through accessories (inches if water column) — air handler

Unit Model No.	CFM	m^3/h	Return Grille		Discharge Plenum & Grille[b]		Electric Heaters (kW)							
							5–10		15–20		25–30		35–50	
			in. wc	Pascal	in. wc	Pascal	in. wc	Pascal	in. wc	Pascal	in. wc	Pascal	in. wc	Pascal
	1400	2379	0.09	23.60	0.16	41.10	0.06	16.20	0.05	13.70	0.09	23.60	—	—
TWE051	1700	2889	0.14	34.90	0.24	60.60	0.09	23.90	0.08	20.20	0.14	34.90	—	—
	2000	3398	0.18	45.70	0.33	83.80	0.13	33.00	0.13	33.00	0.19	48.30	—	—
	2000	3398	0.06	14.70	0.18	45.20	0.03	6.80	0.05	13.50	0.08	19.20	0.10	26.00
TWE076	2500	4248	0.09	22.90	0.28	70.60	0.04	10.60	0.08	21.20	0.12	30.00	0.16	40.60
	3000	5098	0.13	33.00	0.40	101.60	0.06	15.20	0.12	30.50	0.17	43.20	0.23	58.40
	2600	4418	0.05	11.70	0.28	72.10	0.04	10.10	0.09	21.80	0.13	31.90	0.17	43.60
TWE101	3300	5607	0.70	18.90	0.46	116.20	0.06	16.20	0.14	35.10	0.20	51.30	0.28	70.20
	4000	6797	0.11	27.80	0.67	170.70	0.09	23.80	0.20	51.60	0.30	75.40	0.41	103.20
	3200	5436	0.04	10.20	0.10	25.60	0.01	2.50	0.02	5.00	0.03	7.50	0.04	10.00
TWE126	4000	6797	0.06	15.90	0.16	39.90	0.02	5.00	0.03	7.50	0.04	10.00	0.06	15.00
	4800	8156	0.09	22.90	0.23	57.50	0.03	7.50	0.03	7.50	0.06	15.00	0.08	20.00
	4000	6797	0.70	16.90	0.15	38.40	0.02	3.80	0.03	6.80	0.05	13.50	0.08	19.20
TWE156	5000	8496	0.10	26.50	0.24	60.00	0.04	10.60	0.04	10.60	0.08	21.20	0.12	30.00
	6000	10195	0.15	38.10	0.34	86.40	0.06	15.20	0.06	15.20	0.12	30.50	0.17	43.20
	5200	8836	0.70	18.40	0.30	73.80	0.04	10.60	0.04	10.60	0.08	21.10	0.13	31.70
TWE201	6650	11300	0.12	30.20	0.46	114.90	0.70	17.30	0.70	17.30	0.14	34.50	0.21	51.80
	7800	13254	0.16	41.50	0.63	156.10	0.10	23.80	0.10	23.80	0.19	47.50	0.29	71.30
	7500	12742	0.15	37.70	0.58	144.60	0.09	21.80	0.09	21.80	0.18	44.10	0.26	65.90
TWE251	8350	14187	0.18	45.60	0.72	178.60	0.11	27.10	0.11	27.10	0.22	54.00	0.33	81.10
	9200	15631	0.22	53.60	0.87	216.80	0.13	32.40	0.13	32.40	0.26	64.50	0.39	96.90

Notes:
1. Return air filter ESP included in Fan Performance Table data.
2. On discharge plenum and grille - at louver opening angle of 42°F (5.5°C). For ESP at other angle openings, see accessory installation instruction.

Table 95. Auxiliary electric heat capacity — air handler

Unit Model No.	Total kW	No. of Stages	Stage 1		Stage 2		Total	
			kW Input	Btu Output	kW Input	Btu Output	kW Input	Btu Output
TWE051, 076, 101DD/ED	5.00	1	5.00	17,065	—	—	5.00	17,065
	9.96	1	9.96	33,993	—	—	9.96	33,993
	14.96	1	14.96	51,058	—	—	14.96	51,058
	24.92	2	14.96	51,058	9.96	33993	24.92	85,051
TWE076, 101DD/ED	34.88	2	19.92	67,987	14.96	51058	34.88	119,045
TWE126, 156, 201, 251ED	10.00	1	10.00	34,130	—	—	10.00	34,130
	19.92	1	19.92	67,987	—	—	19.92	67,987
	29.92	2	19.92	67,987	10.00	34130	29.92	102,117
	49.84	2	29.92	102,117	19.92	67987	49.84	170,104

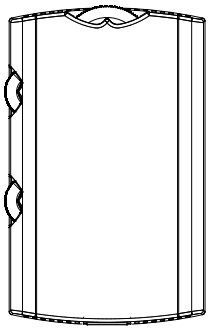
Note: Heaters are rated at 240V, 480V and 600V. For other than rated voltage, capacity = (Voltage/Related Voltage)^2 x Rated Capacity

Controls

ReliaTel

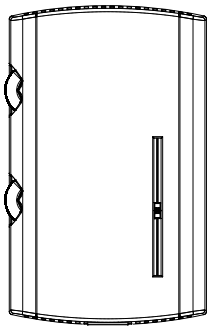
Zone Sensors are the building occupant's comfort control devices. Zone sensors are required for SZVAV applications. The following zone sensor options are available for units with ReliaTel control.

Manual Changeover



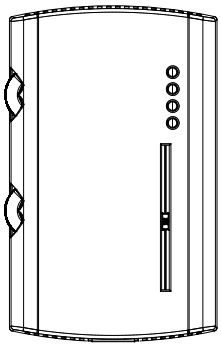
Heat, Cool or Off System Switch. Fan Auto or Off Switch. One temperature setpoint lever.

Manual/Automatic Changeover



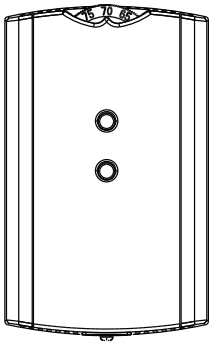
Auto, Heat, Cool or Off System Switch. Fan Auto or Off Switch. Two temperature setpoint levers.

Manual/Automatic Changeover



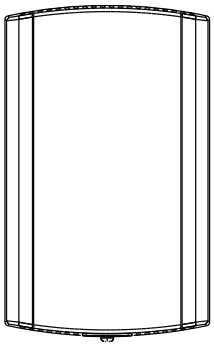
Auto, Heat, Cool or Off System Switch. Fan Auto or Off Switch. Two temperature setpoint levers. Status Indication LED lights, System On, Heat, Cool, or Service.

Integrated Comfort™ System



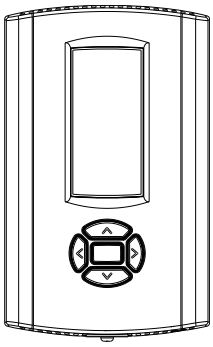
Sensor(s) available with optional temperature adjustment and override buttons to provide central control through a Trane Integrated Comfort™ system.

Remote Sensor



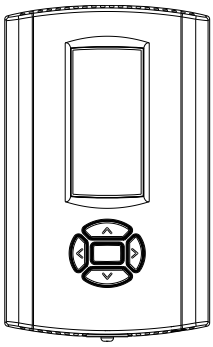
Sensor(s) available for all zone sensors to provide remote sensing capabilities.

Wireless Zone Sensor



LCD display that provides heat, cool, auto or off. Includes two temperature setpoints and a lockable setting with °F or °C indicators.

Programmable Night Setback

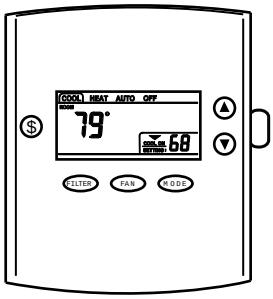


Auto or manual changeover with seven-day programming. Keyboard selection of Heat, Cool, Fan, Auto, EM Heat or On. All sensors have System On, Heat, Cool, Service LED/ indicators as standard. Night Setback Sensors have one (1) Occupied, one (1) Un-occupied, and one (1) Override program per day.

Electromechanical

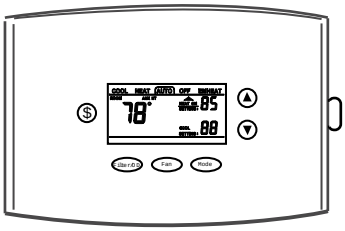
Non-Programmable Thermostats

TCONT200* (1H/1C)**



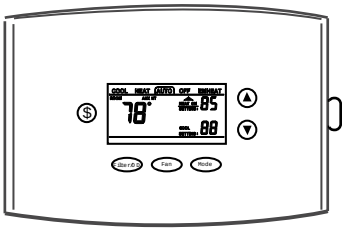
Auto-changeover Backlit Display & Keys Filter Reminder Keypad Lock

TCONT401* (2H/1C)**



Auto-changeover Backlit Display & Keys Filter Reminder Keypad Lock Outdoor Temp Sensor Available

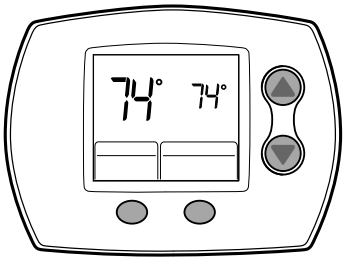
TCONT402* (3H/2C)**



Auto-changeover Backlit Display & Keys Filter Reminder Keypad Lock Outdoor Temp Sensor Included

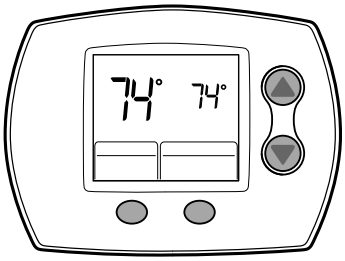
Programmable Thermostats

TCONT600*(1H/1C)**



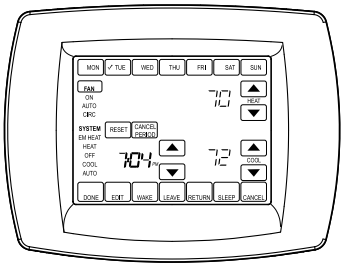
5/2 or 5/1/1 Programming Actual and Setpoint temps displayed simultaneously

TCONT602*(2H/2C)**



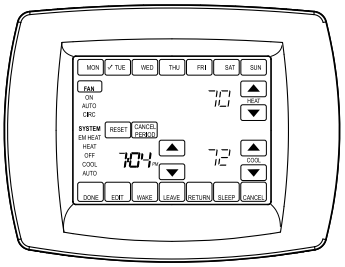
5/2 or 5/1/1 Programming Actual and Setpoint temps displayed simultaneously

TCONT800* (1H/1C)**



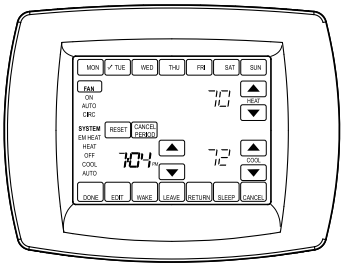
Interactive touchscreen Large display Real time clock

TCONT802* (3H/2C)**



Interactive touchscreen Large display Real time clock

TCONT803* (3H/2C)**



Interactive touchscreen Large display Real time clock Built-in humidity sensor

Notes:

- *All thermostats may be used with ReliaTel units.*
- *Thermostats may be used with ReliaTel-equipped Cooling units, but only when matched with Standard Air Handlers (SZVAV Air Handlers excluded).*

Electrical Data

Cooling Condenser

Table 96. Electrical characteristics — compressor and condenser fan motors — 50 Hz

Tons	Unit Model Number	Compressor Motor					Condenser Fan Motor				
		No.	Volts	Phase	Amps		No.	Volts	Phase	Amps	
					RLA (Ea.)	LRA (Ea.)				RLA (Ea.)	LRA (Ea.)
5	TTA061GD	1	380-415-50	3	8.9	67.1	1	380-415-50	1	1.6	3.8
6.25	TTA076GD	1	380-415-50	3	12.5	101	1	380-415-50	1	1.6	3.8
	TTA076HD	2	380-415-50	3	6.7	43	1	380-415-50	1	1.6	3.8
8.33	TTA101GD	1	380-415-50	3	19	142	1	380-415-50	1	1.9	5.8
	TTA101HD	2	380-415-50	3	8	51.5	1	380-415-50	1	1.9	5.8
	TTA101FD	2	380-415-50	3	9.9	64	1	380-415-50	1	1.9	5.8
10.4	TTA126ED	2	380-415-50	3	10.9	75	1	380-415-50	1	1.9	5.8
13	TTA156ED	2	380-415-50	3	12.5	101	2	380-415-50	1	1.9	5.8
	TTA156FD	2	380-415-50	3	12.5	101	2	380-415-50	1	1.9	5.8
16.7	TTA201ED	2	380-415-50	3	19.1	142	2	380-415-50	1	1.9	5.8
	TTA201FD	2	380-415-50	3	19.1	142	2	380-415-50	1	1.9	5.8
20.9	TTA251FD	2	380-415-50	3	20.7	118	2	380-415-50	1	1.9	5.8

Note: Electrical characteristics reflect nameplate values and are calculated in accordance with UL and ARI specifications.

Table 97. Unit wiring — condensing units — 50 Hz

Tons	Unit Model Number	Unit Operating Voltage	Maximum Circuit Ampacity	Maximum Fuse Size or Maximum Circuit Breaker
5	TTA061GD	380/415	12.7	20
6.25	TTA076GD	380/415	17.3	25
	TTA076HD	380/415	16.7	20
8.33	TTA101GD	380/415	25.7	40
	TTA101HD	380/415	19.9	25
	TTA101FD	380/415	24.2	30
10.4	TTA126ED	380/415	26.4	30
13	TTA156ED	380/415	32	40
	TTA156FD	380/415	32	40
16.7	TTA201ED	380/415	46.9	60
	TTA201FD	380/415	46.9	60
20.9	TTA251FD	380/415	50.4	60

Note: HACR type circuit breaker per NEC

Air Handler (Standard)

Table 98. Electrical characteristics — standard motor — 50 Hz air handler

Tons	Unit Model Number	Standard Evaporator Fan Motor				
		No.	Volts	Phase	Amps	
					FLA	LRA
4.6	TWE051DD	1	380	3	1.4	8.0
		1	415	3	1.0	8.4
6.25	TWE076DD, ED	1	380	3	3.1	17.0
		1	415	3	3.2	16.8
8.33	TWE101DD, ED	1	380	3	3.4	17.3
		1	415	3	3.2	19.0
10.4	TWE126ED	1	380	3	3.2	35.0
		1	415	3	3.1	35.0
13	TWE156ED	1	380	3	4.0	33.1
		1	415	3	4.0	36.1
16.7	TWE201ED	1	380	3	8.0	43.2
		1	415	3	8.0	48.6
20.9	TWE251ED	1	380	3	7.5	71.0
		1	415	3	7.2	77.0

Table 99. Unit wiring — air handler — 50 Hz

Tons	Unit Model Number	Minimum Unit Operating Voltage Range	Maximum Fuse Circuit Ampacity Ampacity	Size or Maximum Circuit Breaker
4.6	TWE051DD	380/415	4	15
6.25	TWE076DD, ED	380/415	5	15
8.33	TWE101DD, ED	380/415	5	15
10.4	TWE126ED	380/415	5	15
13	TWE156ED	380/415	6	15
16.7	TWE201ED	380/415	10	15
20.9	TWE251ED	380/415	10	15

Table 100. Unit wiring with electric heat (single point connection) — air handlers

Heater Model No.	Heater kW Rating	To Use with Unit	Control Stages	Minimum Circuit Ampacity	Maximum Fuse Breaker Size
BAYHTRL405*	5	TWE051DD	1	13	15
BAYHTRL410*	9.96		1	22	25
BAYHTRL415*	14.96		1	31	35
BAYHTRL425*	24.92		2	49	50
BAYHTRL405*	5	TWE076DD, ED	1	14	15
BAYHTRL410*	9.96		1	23	25
BAYHTRL415*	14.96		1	32	35
BAYHTRL425*	24.92		2	50	50
BAYHTRL435*	34.88		2	68	70
BAYHTRL405*	5	TWE101DD, TWE101ED	1	14	15
BAYHTRL410*	9.96		1	23	25
BAYHTRL415*	14.96		1	32	35
BAYHTRL425*	24.92		2	50	50
BAYHTRL435*	34.88		2	68	70
BAYHTRM410*	10	TWE126ED	1	19	20
BAYHTRM420*	19.92		1	41	45
BAYHTRM430*	29.92		2	59	60
BAYHTRM450*	49.84		2	94	100
BAYHTRM410*	10	TWE156ED	1	23	25
BAYHTRM420*	19.92		1	41	45
BAYHTRM430*	29.92		2	59	60
BAYHTRM450*	49.84		2	95	100
BAYHTRM410*	10	TWE201ED	1	29	30
BAYHTRM420*	19.92		1	46	50
BAYHTRM430*	29.92		2	65	70
BAYHTRM450*	49.84		2	100	100
BAYHTRM410*	10	TWE251ED	1	29	30
BAYHTRM420*	19.92		1	46	50
BAYHTRM430*	29.92		2	65	70
BAYHTRM450*	49.84		2	100	100

Notes:

1. Field wire must be rated at least 167°F (75°C).
2. Field wire must be rated at least 194°F (90°C).
3. Heater kW ratings are at 400v for 3 phase, 400v air handlers.
4. For other than rated voltage, capacity = (voltage/rated voltage)2 x rated capacity and kW = (voltage/rated voltage) 2 rated kW.
5. Any power supply and circuits must be wired and protected in accordance with local codes.
6. MCA and Maximum Fuse Size is based on 400V.

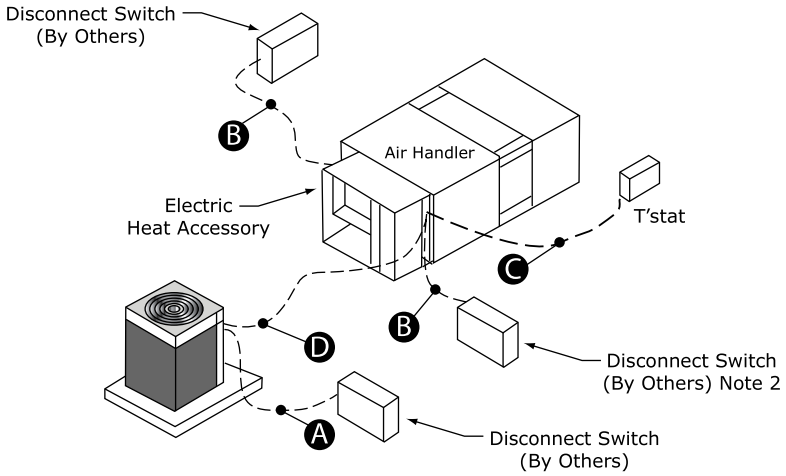
Jobsite Connections

Electromechanical Controls

Wiring shown with dashed lines is to be furnished and installed by the customer. All customer supplied wiring must be copper only and must conform to NEC and local electrical codes. Codes may require line of sight between disconnect switch and unit.

Note: *When electric heater accessory is used, single point power entry or dual point power entry is field optional. Single point power entry option is through electric heater only.*

Figure 9. Electromechanical jobsite connections



A. 3 power wires, line voltage for 3 phase, (2 power wires for single phase)

B. 3 power wires, line voltage for 3 phase, (2 power wires for single phase)

C. Cooling only thermostat: 3 to 7 wires depending on stages of electric heat

D. 3 to 7 wires depending on type of outdoor unit(s)

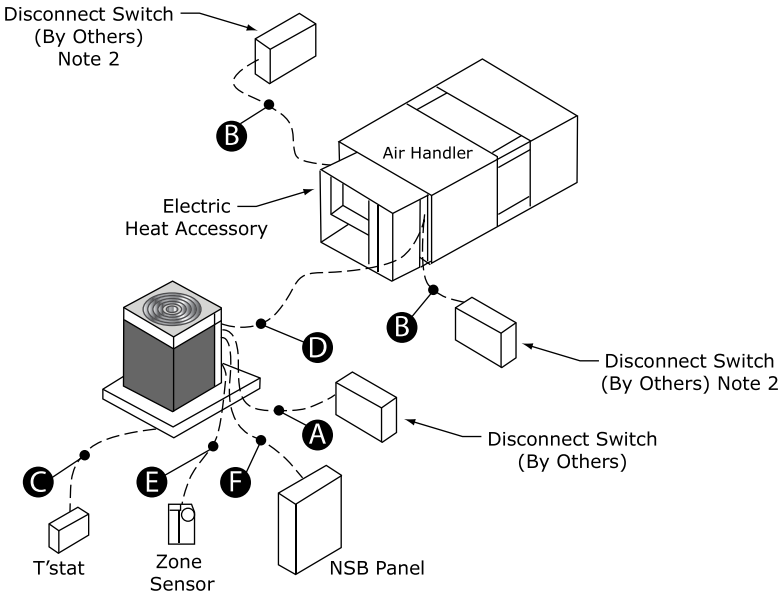
ReliaTel Controls

Wiring shown with dashed lines is to be furnished and installed by the customer. All customer supplied wiring must be copper only and must conform to NEC and local electrical codes. Codes may require line of sight between disconnect switch and unit.

Notes:

1. *When electric heater accessory is used, single point power entry or dual point power entry is field optional. Single point power entry option is through electric heater only.*
2. ****Choose only one of the following; Thermostat, Zone Sensor, or NSB Panel.*

Figure 10. ReliaTel jobsite connections



A. 3 power wires, line voltage for 3 phase, (2 power wires for single phase)

B. 3 power wires, line voltage for 3 phase, (2 power wires for single phase)

C. Cooling only thermostat: 3 to 7 wires depending on stages of electric heat

D. 3 to 7 wires depending on type of outdoor unit(s)

E. Zone Sensor: 4 to 10 wires depending on zone sensor model[a]

F. Night Setback Panel: 7 wires

[a] For SZVAV air handlers: 4 additional wires are required (2 of which require twisted pair or shielded wire) in order to make connections between ReliaTel boards in the condenser and air handler.

Dimensional Data

Cooling Condenser

Figure 11. 5-6.25 ton condensing unit, single compressor, microchannel

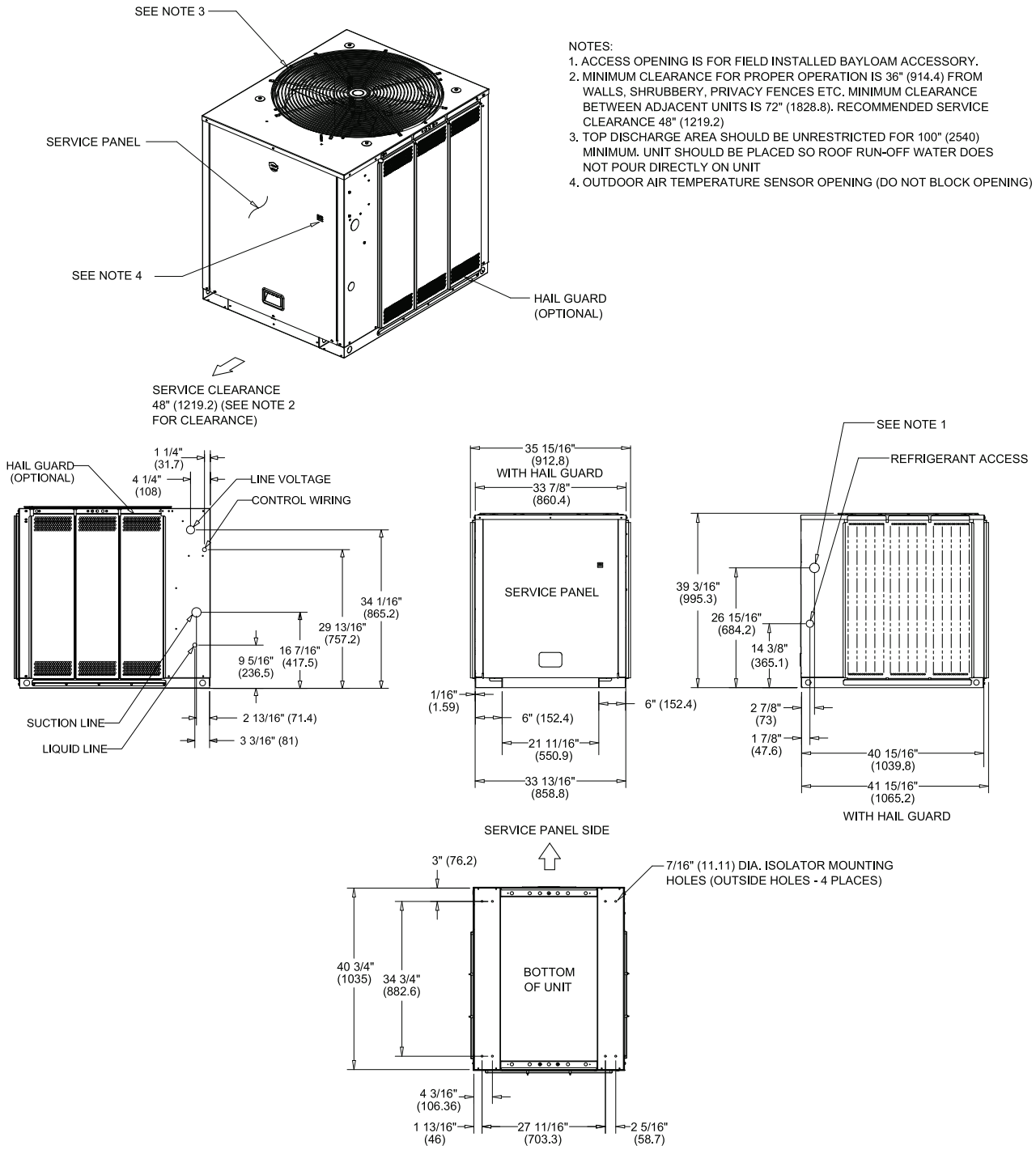

SEE NOTE 3
SERVICE PANEL
SEE NOTE 4
HAIL GUARD (OPTIONAL)
SERVICE CLEARANCE 48" (1219.2) (SEE NOTE 2 FOR CLEARANCE)
NOTES:
1. ACCESS OPENING IS FOR FIELD INSTALLED BAYLOAM ACCESSORY.
2. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" (914.4) FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" (1828.8). RECOMMENDED SERVICE CLEARANCE 48" (1219.2)
3. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" (2540) MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT
4. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING)
HAIL GUARD (OPTIONAL)
1 1/4" (31.7)
4 1/4" (108)
LINE VOLTAGE
CONTROL WIRING
34 1/16" (865.2)
29 13/16" (757.2)
16 7/16" (417.5)
9 5/16" (236.5)
2 13/16" (71.4)
3 3/16" (81)
SUCTION LINE
LIQUID LINE
35 15/16" (912.8) WITH HAIL GUARD
33 7/8" (860.4)
SERVICE PANEL
1/16" (1.59)
6" (152.4)
6" (152.4)
21 11/16" (550.9)
33 13/16" (858.8)
SERVICE PANEL SIDE
SEE NOTE 1
REFRIGERANT ACCESS
39 3/16" (995.3)
26 15/16" (684.2)
14 3/8" (365.1)
2 7/8" (73)
1 7/8" (47.6)
40 15/16" (1039.8)
41 15/16" (1065.2)
WITH HAIL GUARD
3" (76.2)
7/16" (11.11) DIA. ISOLATOR MOUNTING HOLES (OUTSIDE HOLES - 4 PLACES)
40 3/4" (1035)
34 3/4" (882.6)
BOTTOM OF UNIT
4 3/16" (106.36)
1 13/16" (46)
27 11/16" (703.3)
2 5/16" (58.7)

Figure 12. 5-6.25 ton condensing unit, dual compressor, microchannel

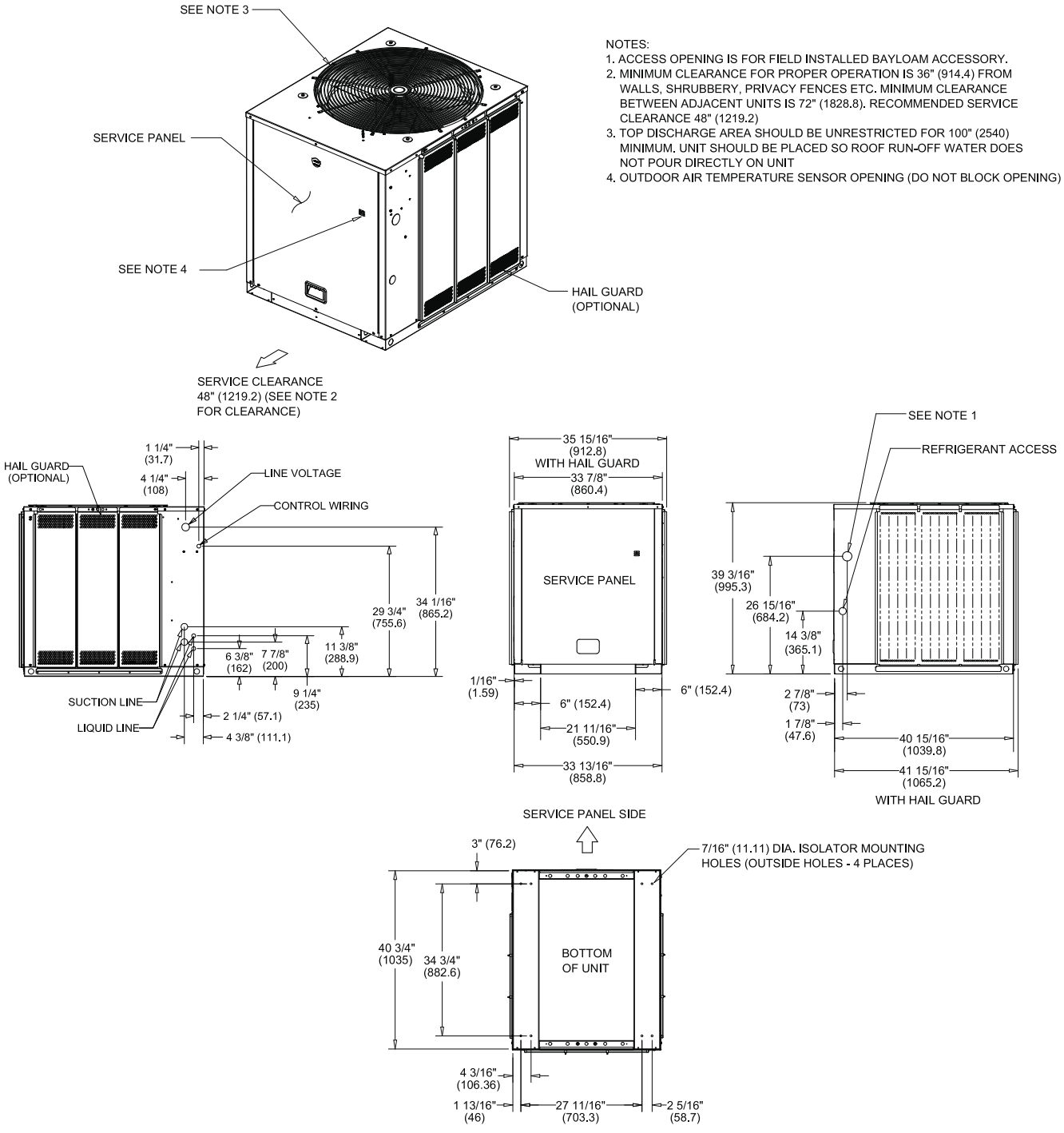

SEE NOTE 3
SERVICE PANEL
SEE NOTE 4
HAIL GUARD (OPTIONAL)
SERVICE CLEARANCE 48" (1219.2) (SEE NOTE 2 FOR CLEARANCE)
NOTES:
1. ACCESS OPENING IS FOR FIELD INSTALLED BAYLOAM ACCESSORY.
2. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" (914.4) FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" (1828.8). RECOMMENDED SERVICE CLEARANCE 48" (1219.2)
3. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" (2540) MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT
4. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING)
HAIL GUARD (OPTIONAL)
1 1/4" (31.7)
4 1/4" (108)
LINE VOLTAGE
CONTROL WIRING
29 3/4" (755.6)
34 1/16" (865.2)
6 3/8" (162)
7 7/8" (200)
11 3/8" (288.9)
9 1/4" (235)
SUCTION LINE
LIQUID LINE
2 1/4" (57.1)
4 3/8" (111.1)
35 15/16" (912.8) WITH HAIL GUARD
33 7/8" (860.4)
SERVICE PANEL
1/16" (1.59)
6" (152.4)
6" (152.4)
21 11/16" (550.9)
33 13/16" (858.8)
SEE NOTE 1
REFRIGERANT ACCESS
39 3/16" (995.3)
26 15/16" (684.2)
14 3/8" (365.1)
2 7/8" (73)
1 7/8" (47.6)
40 15/16" (1039.8)
41 15/16" (1065.2)
WITH HAIL GUARD
SERVICE PANEL SIDE
3" (76.2)
7/16" (11.11) DIA. ISOLATOR MOUNTING HOLES (OUTSIDE HOLES - 4 PLACES)
40 3/4" (1035)
34 3/4" (882.6)
BOTTOM OF UNIT
4 3/16" (106.36)
1 13/16" (46)
27 11/16" (703.3)
2 5/16" (58.7)

Figure 13. 8.33 ton condensing unit, single compressor. microchannel

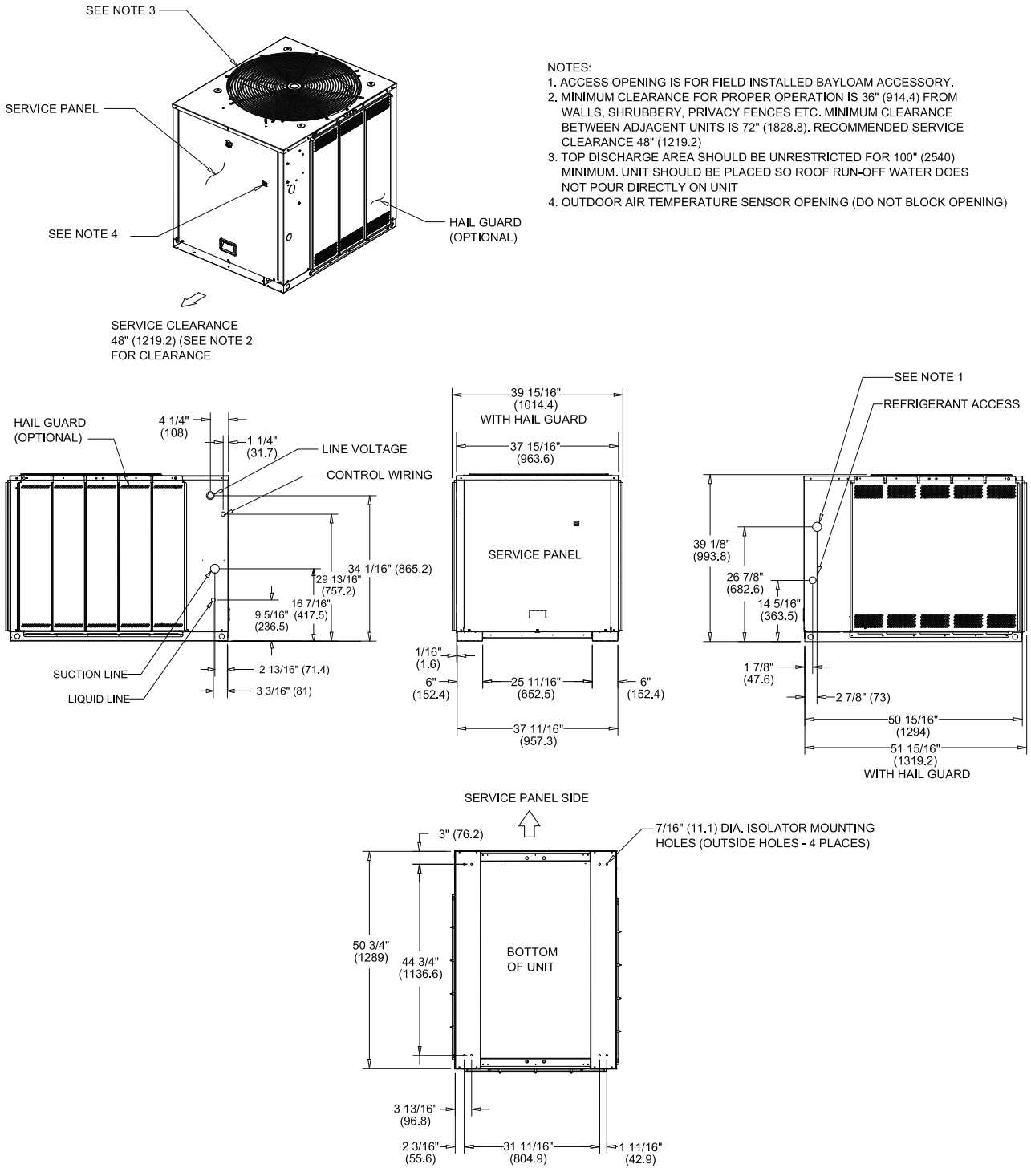

SEE NOTE 3
SERVICE PANEL
SEE NOTE 4
HAIL GUARD (OPTIONAL)
SERVICE CLEARANCE 48" (1219.2) (SEE NOTE 2 FOR CLEARANCE
NOTES:
1. ACCESS OPENING IS FOR FIELD INSTALLED BAYLOAM ACCESSORY.
2. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" (914.4) FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" (1828.8). RECOMMENDED SERVICE CLEARANCE 48" (1219.2)
3. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" (2540) MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT
4. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING)
HAIL GUARD (OPTIONAL)
4 1/4" (108)
1 1/4" (31.7)
LINE VOLTAGE
CONTROL WIRING
34 1/16" (865.2)
29 13/16" (757.2)
16 7/16" (417.5)
9 5/16" (236.5)
SUCTION LINE
LIQUID LINE
2 13/16" (71.4)
3 3/16" (81)
39 15/16" (1014.4) WITH HAIL GUARD
37 15/16" (963.6)
SERVICE PANEL
1/16" (1.6)
6" (152.4)
25 11/16" (652.5)
6" (152.4)
37 11/16" (957.3)
SEE NOTE 1
REFRIGERANT ACCESS
39 1/8" (993.8)
26 7/8" (682.6)
14 5/16" (363.5)
1 7/8" (47.6)
2 7/8" (73)
50 15/16" (1294)
51 15/16" (1319.2) WITH HAIL GUARD
SERVICE PANEL SIDE
3" (76.2)
7/16" (11.1) DIA. ISOLATOR MOUNTING HOLES (OUTSIDE HOLES - 4 PLACES)
50 3/4" (1289)
44 3/4" (1136.6)
BOTTOM OF UNIT
3 13/16" (96.8)
2 3/16" (55.6)
31 11/16" (804.9)
1 11/16" (42.9)

Figure 14. 8.33 ton condensing unit, dual compressor, microchannel

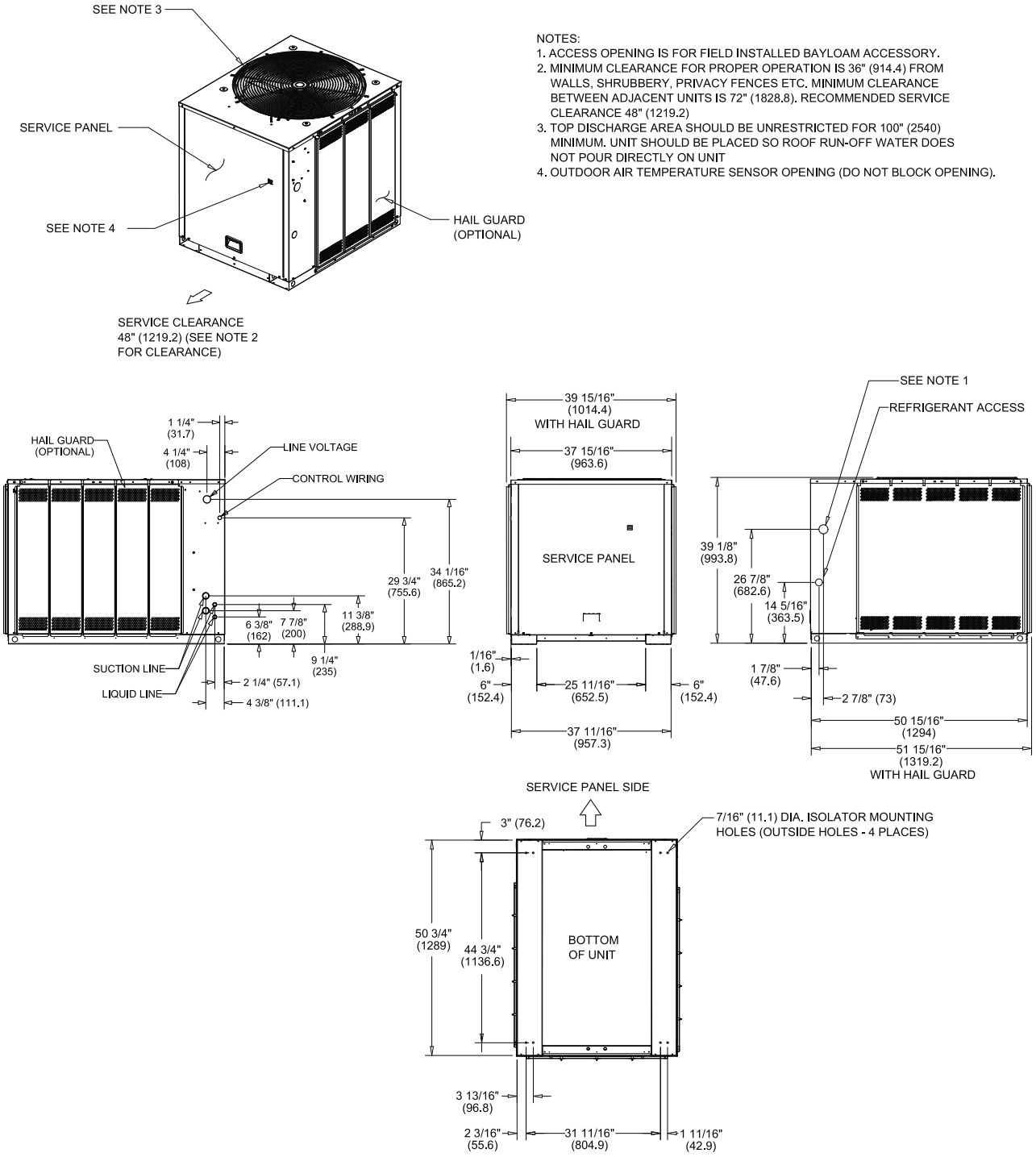
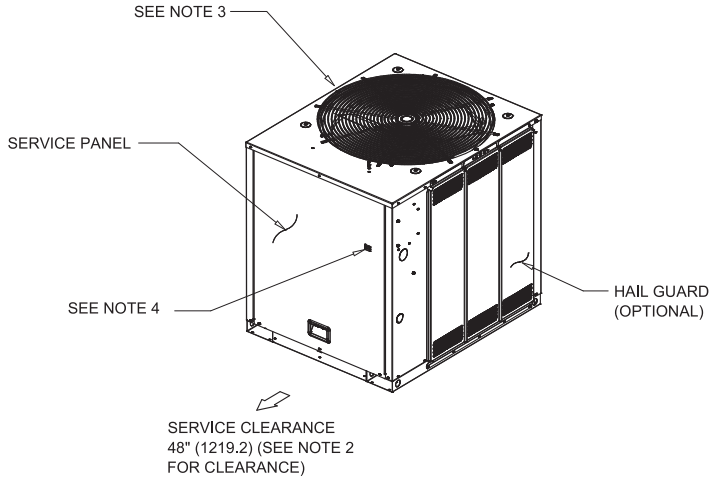

SEE NOTE 3
SERVICE PANEL
SEE NOTE 4
HAIL GUARD (OPTIONAL)
SERVICE CLEARANCE 48" (1219.2) (SEE NOTE 2 FOR CLEARANCE)
NOTES:
1. ACCESS OPENING IS FOR FIELD INSTALLED BAYLOAM ACCESSORY.
2. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" (914.4) FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" (1828.8). RECOMMENDED SERVICE CLEARANCE 48" (1219.2)
3. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" (2540) MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT
4. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING).
1 1/4" (31.7)
4 1/4" (108)
HAIL GUARD (OPTIONAL)
LINE VOLTAGE
CONTROL WIRING
29 3/4" (755.6)
34 1/16" (865.2)
6 3/8" (162)
7 7/8" (200)
11 3/8" (288.9)
9 1/4" (235)
SUCTION LINE
LIQUID LINE
2 1/4" (57.1)
4 3/8" (111.1)
39 15/16" (1014.4) WITH HAIL GUARD
37 15/16" (963.6)
SERVICE PANEL
1/16" (1.6)
6" (152.4)
25 11/16" (652.5)
6" (152.4)
37 11/16" (957.3)
SEE NOTE 1
REFRIGERANT ACCESS
39 1/8" (993.8)
26 7/8" (682.6)
14 5/16" (363.5)
1 7/8" (47.6)
2 7/8" (73)
50 15/16" (1294)
51 15/16" (1319.2) WITH HAIL GUARD
SERVICE PANEL SIDE
3" (76.2)
7/16" (11.1) DIA. ISOLATOR MOUNTING HOLES (OUTSIDE HOLES - 4 PLACES)
50 3/4" (1289)
44 3/4" (1136.6)
BOTTOM OF UNIT
3 13/16" (96.8)
2 3/16" (55.6)
31 11/16" (804.9)
1 11/16" (42.9)

Figure 15. 8.33 condensing unit, manifolded compressor, tube and fin



NOTES:
1. ACCESS OPENING IS FOR FIELD INSTALLED BAYLOAM ACCESSORY.
2. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" (914.4) FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" (1828.8). RECOMMENDED SERVICE CLEARANCE 48" (1219.2)
3. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" (2540) MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT
4. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING)

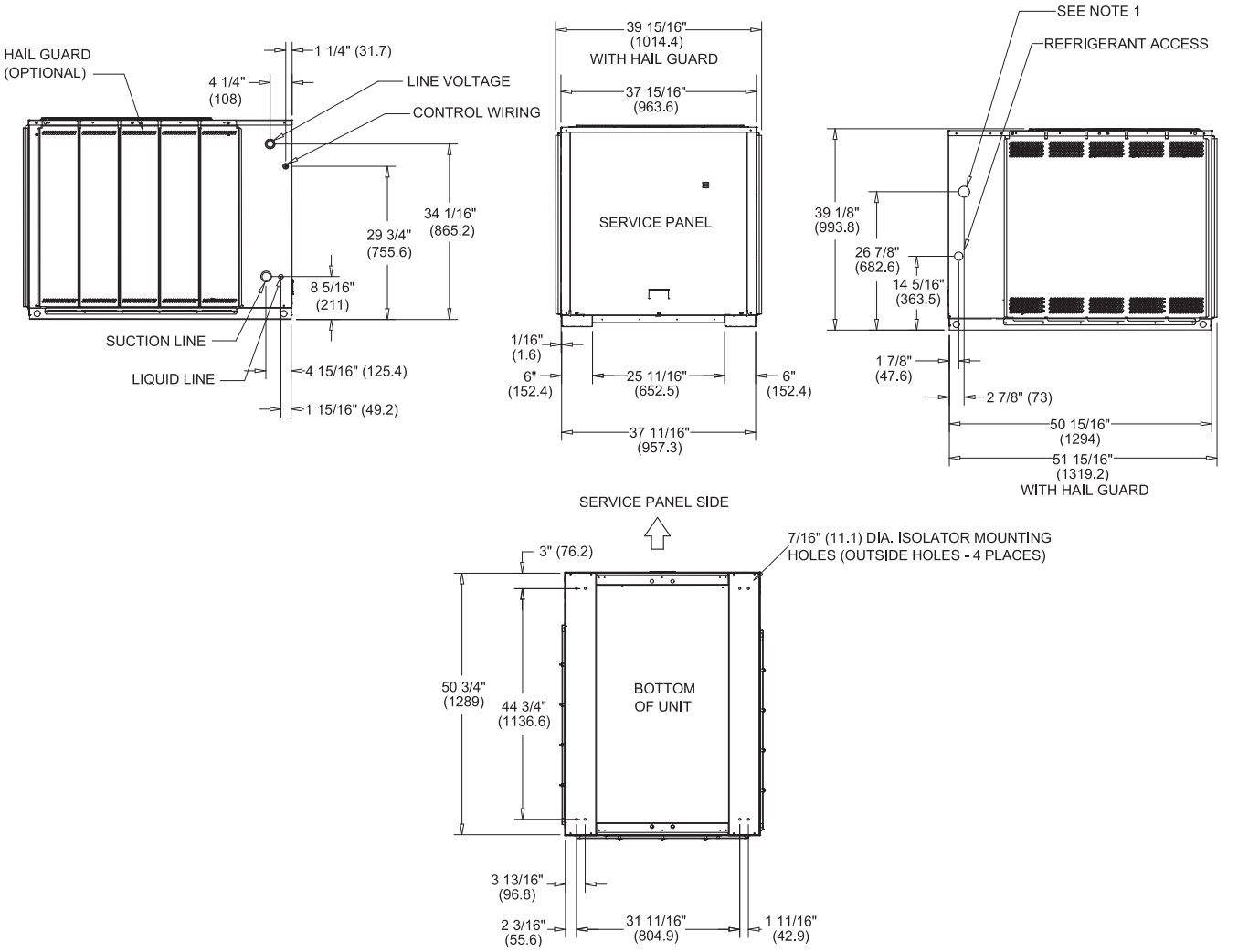
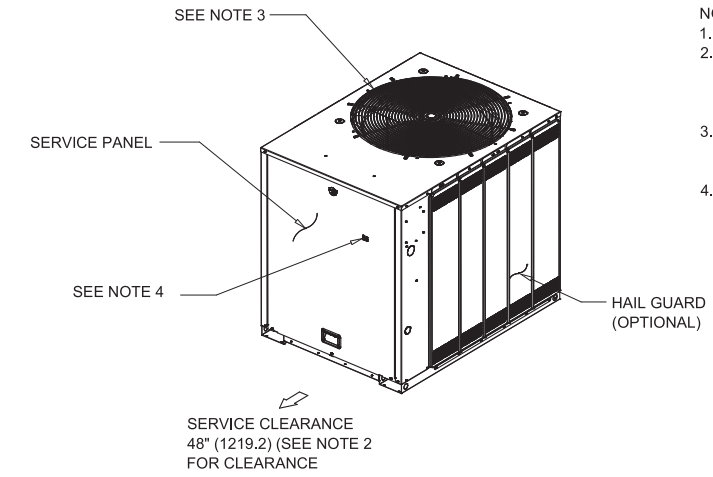


Figure 16. 10.4 ton condensing unit, dual compressor, tube and fin



NOTES:
1. ACCESS OPENING IS FOR FIELD INSTALLED BAYLOAM ACCESSORY.
2. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" (914.4) FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" (1828.8). RECOMMENDED SERVICE CLEARANCE 48" (1219.2)
3. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" (2540) MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT
4. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING).

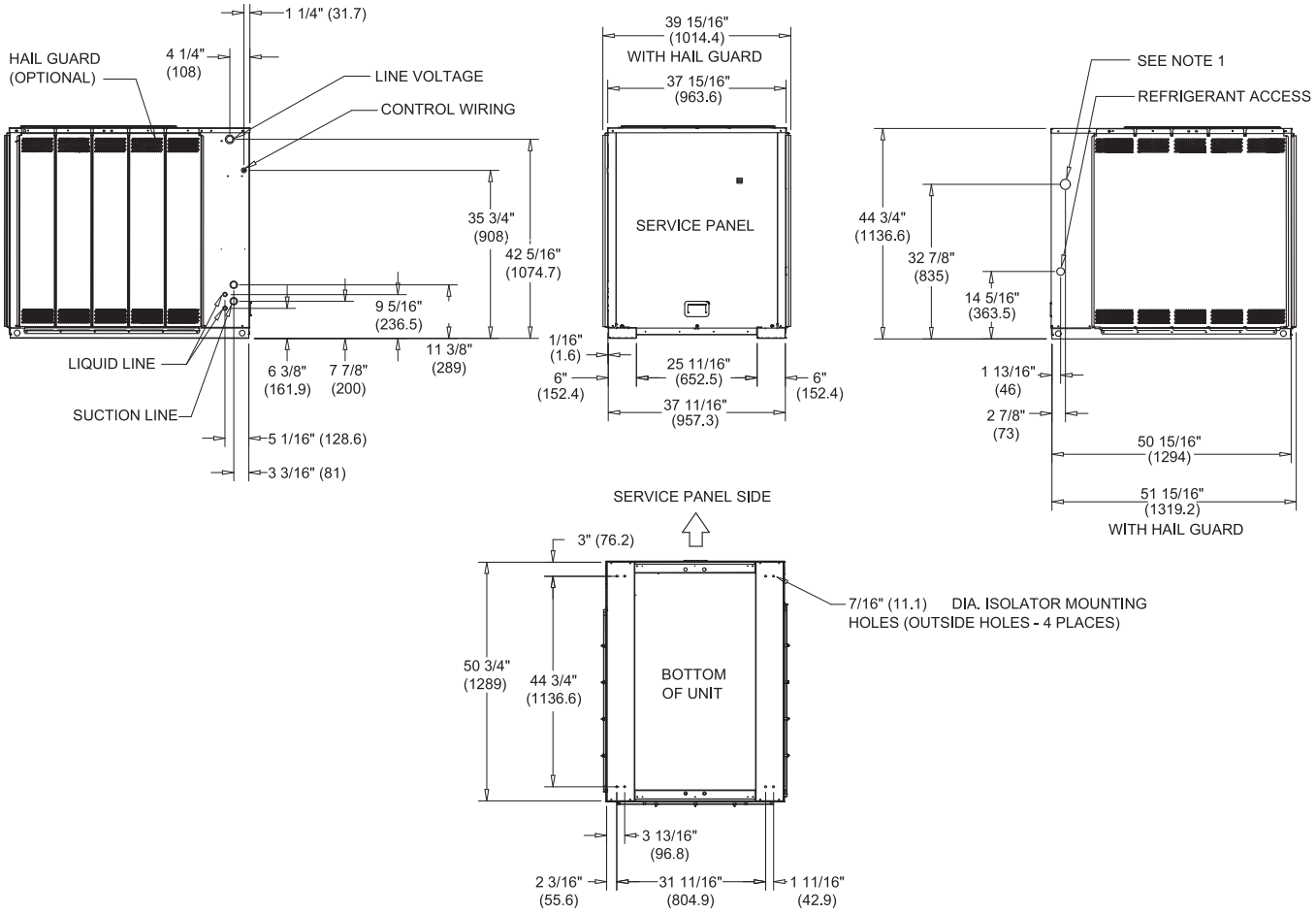
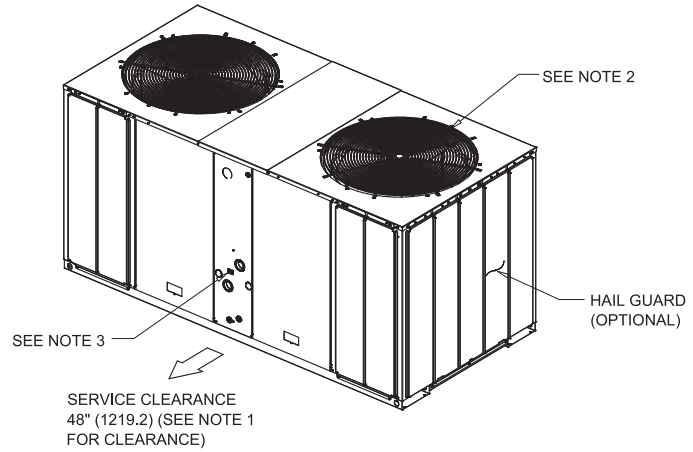
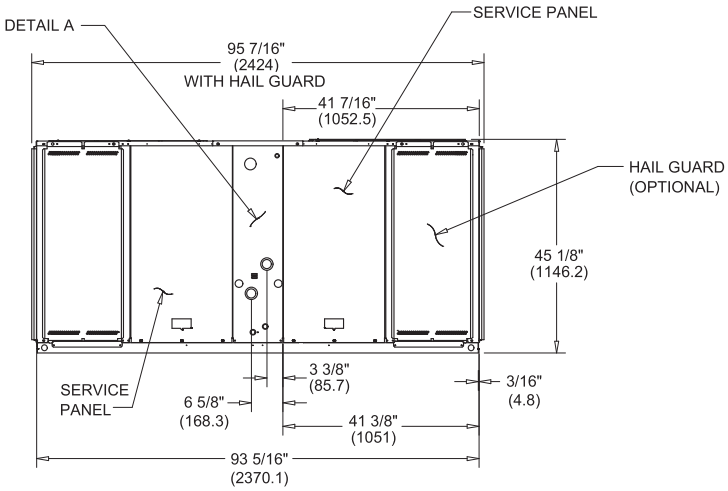
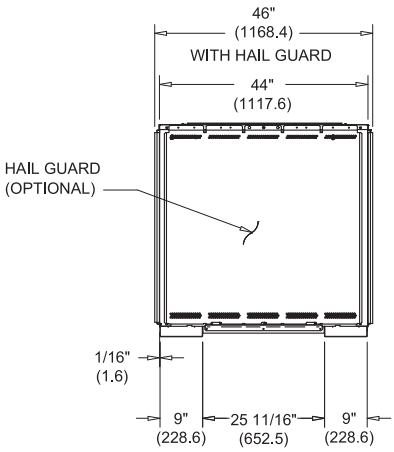


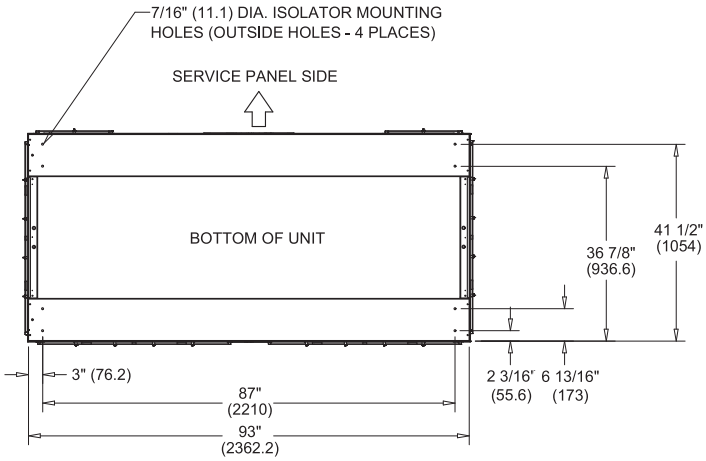
Figure 17. 13-16.7 ton condensing unit, dual compressor, tube and fin

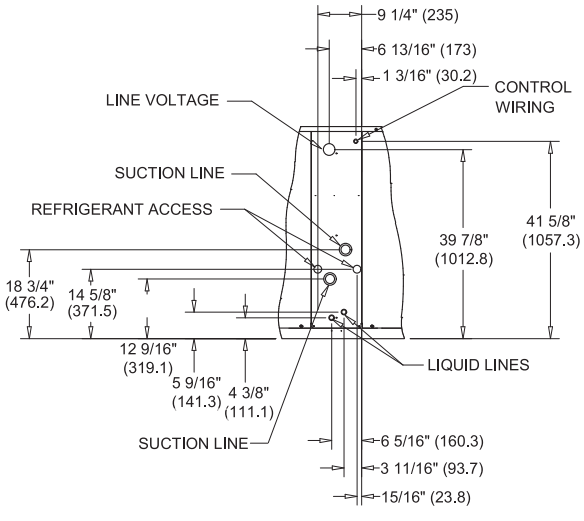


NOTES:
1. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" (914.4) FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" (1828.8). RECOMMENDED SERVICE CLEARANCE 48" (1219.2)
2. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" (2540) MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT
3. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING)



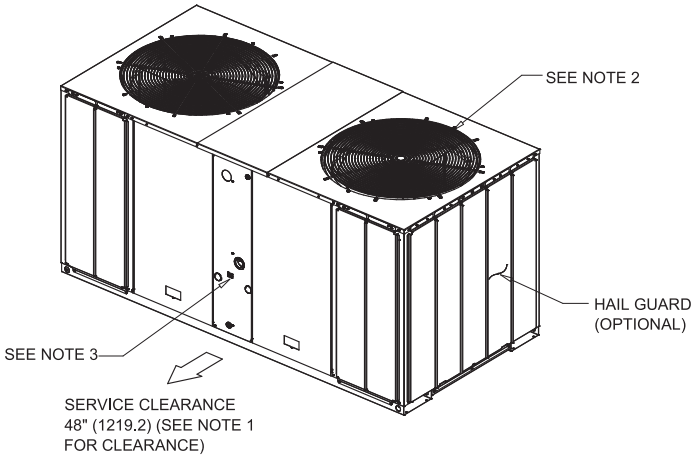




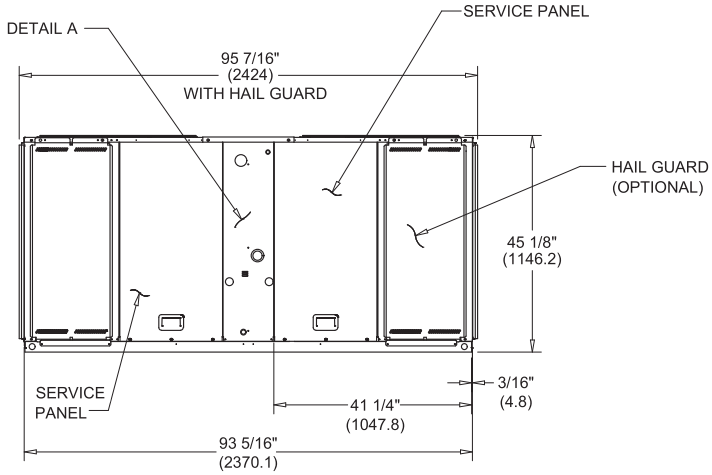


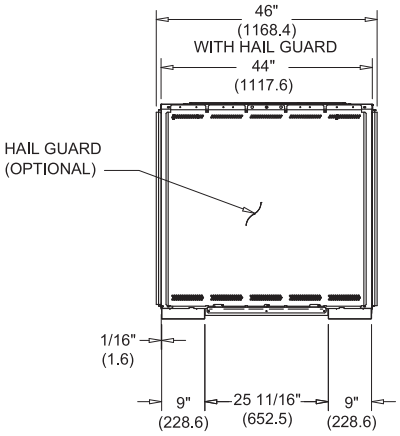
FRONT DETAIL A
DIMENSIONAL DETAIL

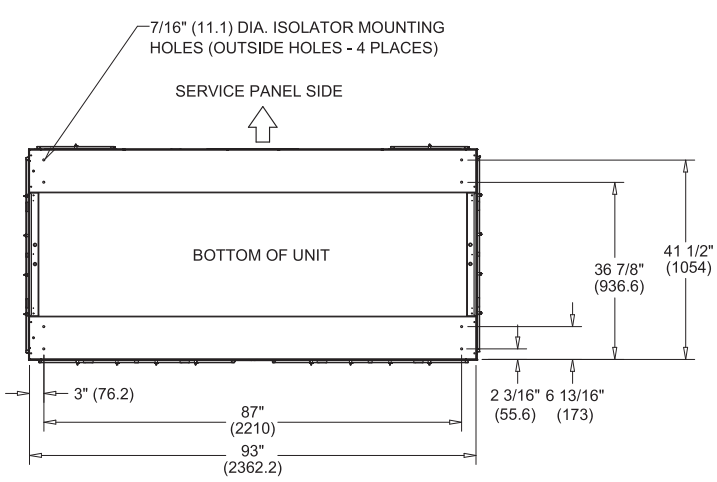
Figure 18. 13-16.7 condensing unit, manifolded compressor, tube and fin

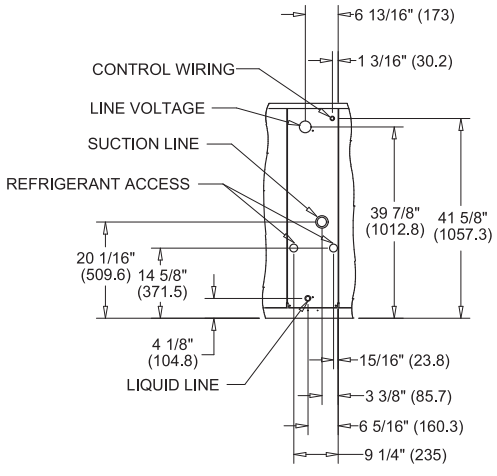


NOTES:
1. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" (914.4) FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" (1828.8). RECOMMENDED SERVICE CLEARANCE 48" (1219.2)
2. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" (2540) MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT
3. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING)



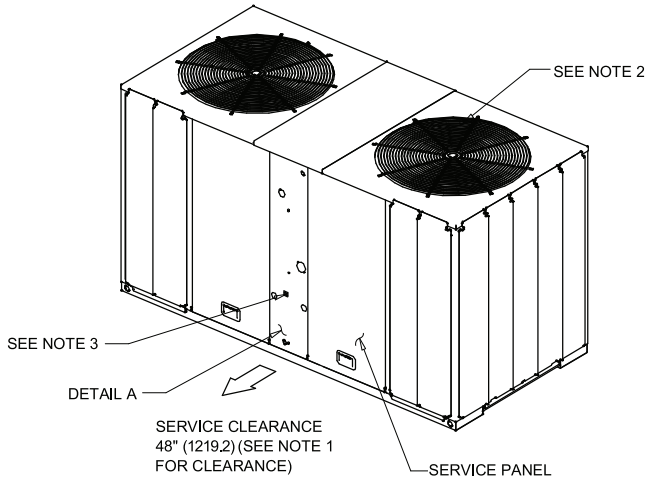




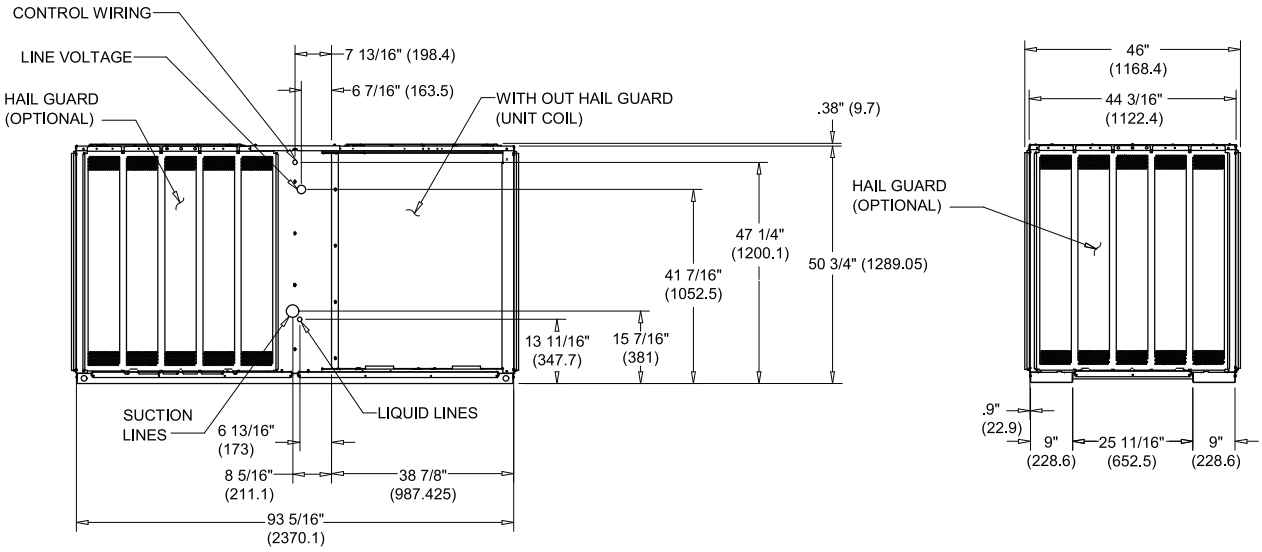


FRONT DETAIL A
DIMENSIONAL DETAIL

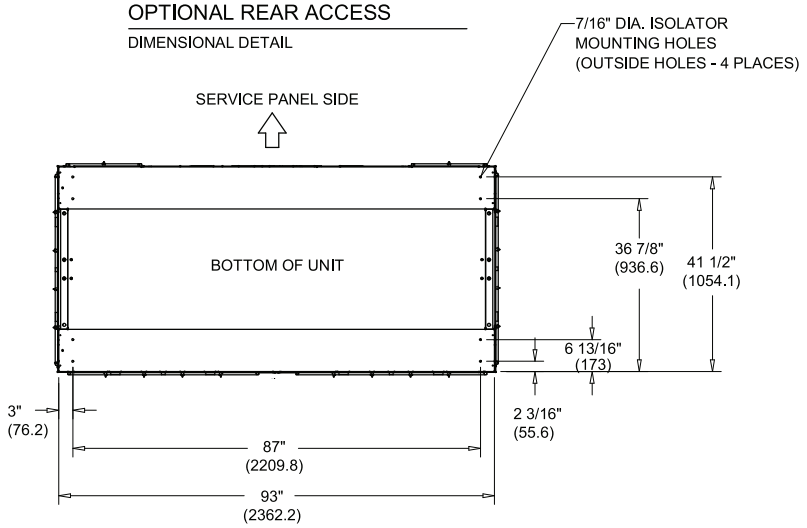
Figure 19. 20.9 ton condensing unit, manifolded compressor, tube and fin

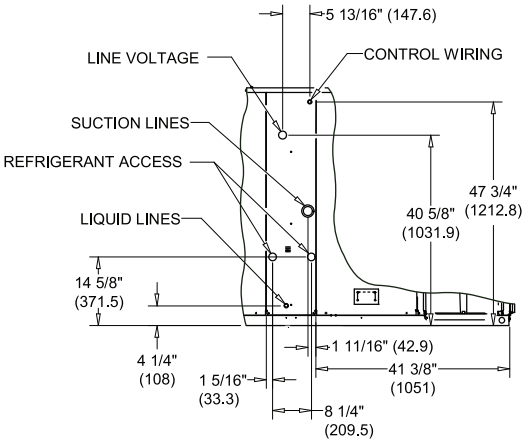


NOTES:
1. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" (914.4) FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" (1828.8). RECOMMENDED SERVICE CLEARANCE 48" (1219.2)
2. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" (2540) MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT
3. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING)



OPTIONAL REAR ACCESS
DIMENSIONAL DETAIL





FRONT DETAIL A
DIMENSIONAL DETAIL

Air Handler

Figure 20. 4.6 ton air handler, single circuit

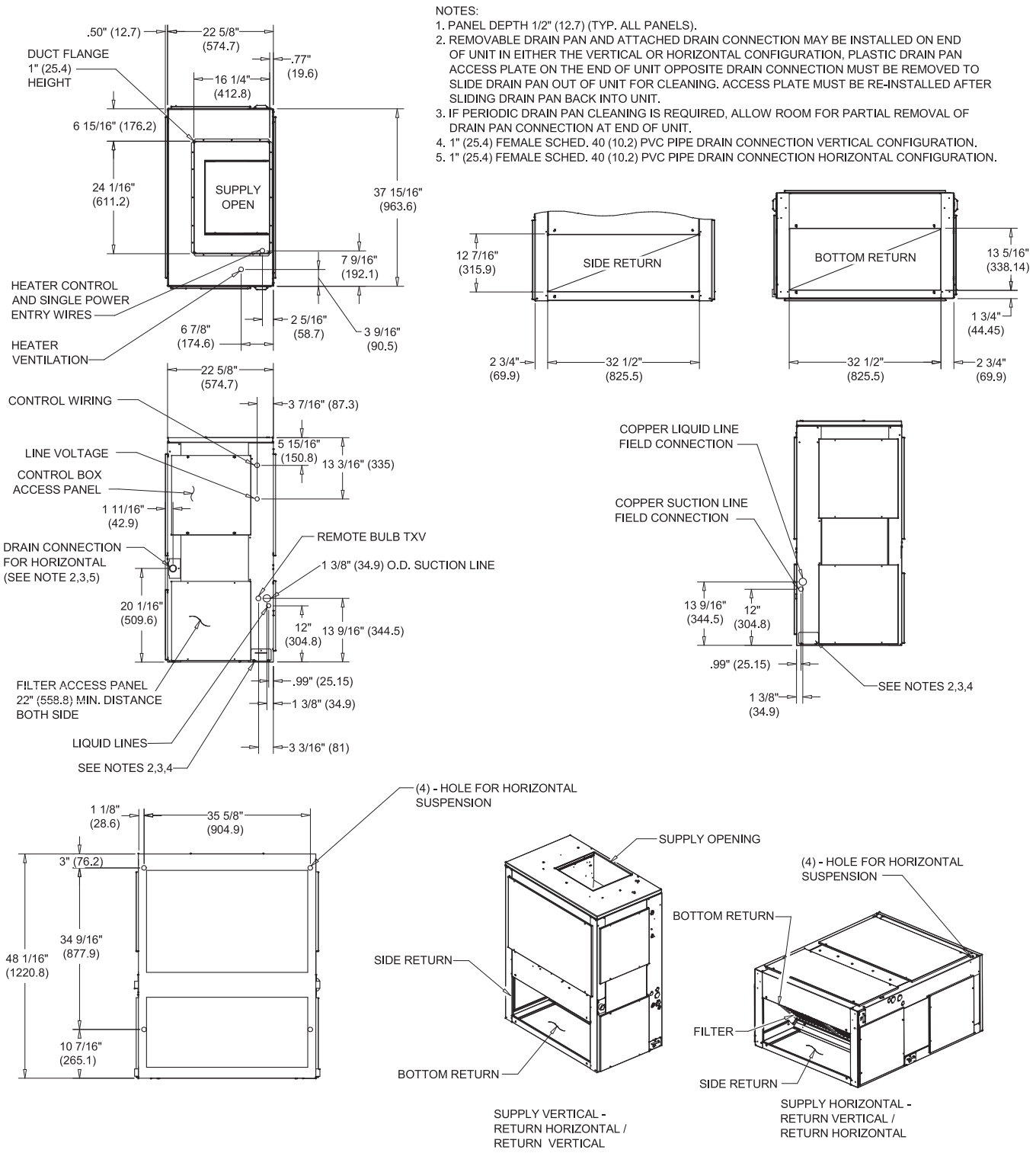

NOTES:
1. PANEL DEPTH 1/2" (12.7) (TYP. ALL PANELS).
2. REMOVABLE DRAIN PAN AND ATTACHED DRAIN CONNECTION MAY BE INSTALLED ON END OF UNIT IN EITHER THE VERTICAL OR HORIZONTAL CONFIGURATION, PLASTIC DRAIN PAN ACCESS PLATE ON THE END OF UNIT OPPOSITE DRAIN CONNECTION MUST BE REMOVED TO SLIDE DRAIN PAN OUT OF UNIT FOR CLEANING. ACCESS PLATE MUST BE RE-INSTALLED AFTER SLIDING DRAIN PAN BACK INTO UNIT.
3. IF PERIODIC DRAIN PAN CLEANING IS REQUIRED, ALLOW ROOM FOR PARTIAL REMOVAL OF DRAIN PAN CONNECTION AT END OF UNIT.
4. 1" (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION VERTICAL CONFIGURATION.
5. 1" (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION HORIZONTAL CONFIGURATION.
.50" (12.7)
22 5/8" (574.7)
.77" (19.6)
DUCT FLANGE 1" (25.4) HEIGHT
16 1/4" (412.8)
6 15/16" (176.2)
24 1/16" (611.2)
SUPPLY OPEN
37 15/16" (963.6)
7 9/16" (192.1)
HEATER CONTROL AND SINGLE POWER ENTRY WIRES
HEATER VENTILATION
6 7/8" (174.6)
2 5/16" (58.7)
3 9/16" (90.5)
12 7/16" (315.9)
SIDE RETURN
2 3/4" (69.9)
32 1/2" (825.5)
BOTTOM RETURN
13 5/16" (338.14)
1 3/4" (44.45)
32 1/2" (825.5)
2 3/4" (69.9)
22 5/8" (574.7)
CONTROL WIRING
3 7/16" (87.3)
5 15/16" (150.8)
13 3/16" (335)
LINE VOLTAGE
CONTROL BOX ACCESS PANEL
1 11/16" (42.9)
REMOTE BULB TXV
DRAIN CONNECTION FOR HORIZONTAL (SEE NOTE 2,3,5)
1 3/8" (34.9) O.D. SUCTION LINE
20 1/16" (509.6)
12" (304.8)
13 9/16" (344.5)
.99" (25.15)
FILTER ACCESS PANEL 22" (558.8) MIN. DISTANCE BOTH SIDE
1 3/8" (34.9)
LIQUID LINES
3 3/16" (81)
SEE NOTES 2,3,4
COPPER LIQUID LINE FIELD CONNECTION
COPPER SUCTION LINE FIELD CONNECTION
13 9/16" (344.5)
12" (304.8)
.99" (25.15)
SEE NOTES 2,3,4
1 3/8" (34.9)
(4) - HOLE FOR HORIZONTAL SUSPENSION
1 1/8" (28.6)
35 5/8" (904.9)
3" (76.2)
34 9/16" (877.9)
48 1/16" (1220.8)
10 7/16" (265.1)
SUPPLY OPENING
SIDE RETURN
BOTTOM RETURN
SUPPLY VERTICAL - RETURN HORIZONTAL / RETURN VERTICAL
(4) - HOLE FOR HORIZONTAL SUSPENSION
BOTTOM RETURN
FILTER
SIDE RETURN
SUPPLY HORIZONTAL - RETURN VERTICAL / RETURN HORIZONTAL

Figure 21. 6.25 ton air handler, single circuit

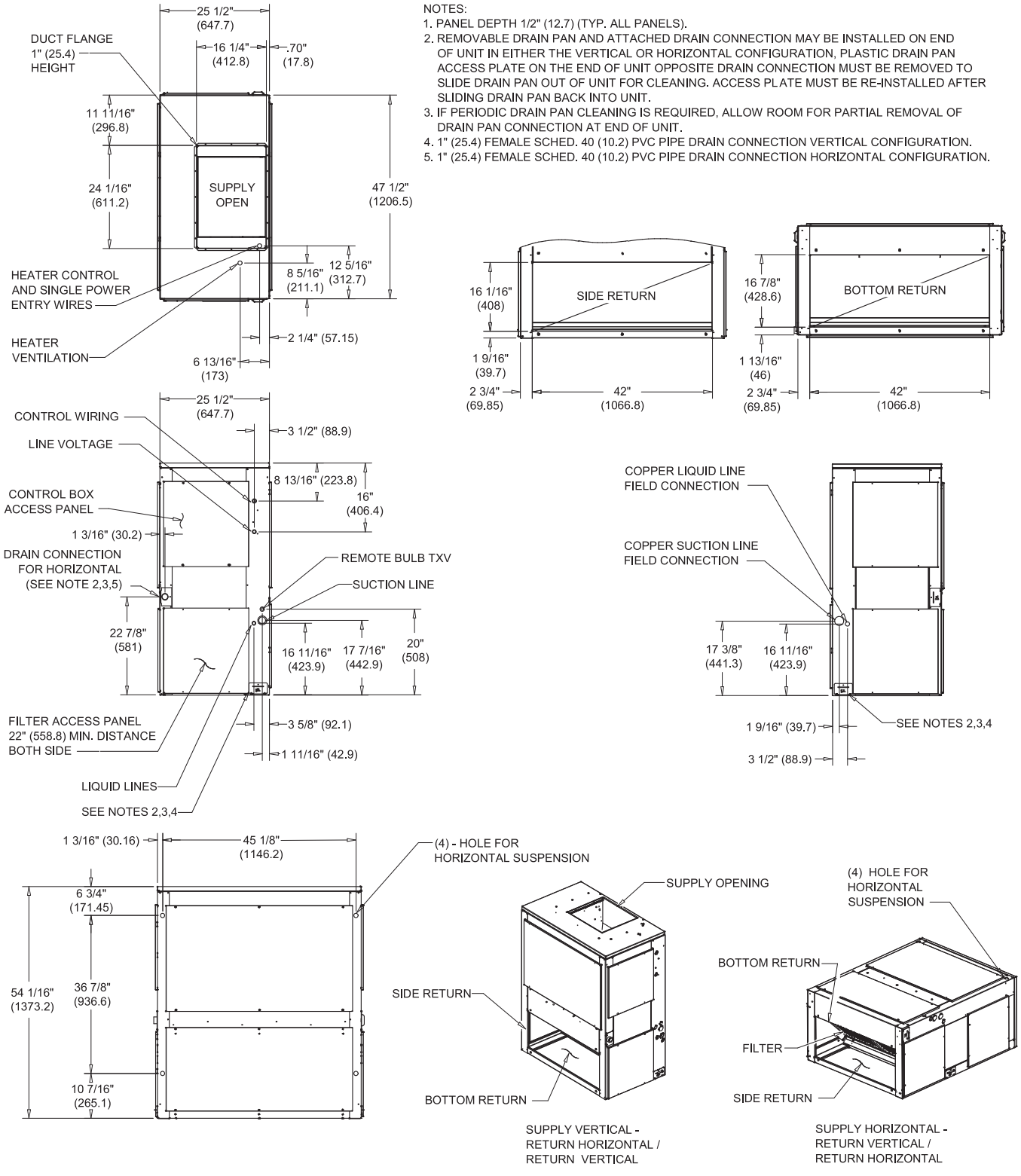

NOTES:
1. PANEL DEPTH 1/2" (12.7) (TYP. ALL PANELS).
2. REMOVABLE DRAIN PAN AND ATTACHED DRAIN CONNECTION MAY BE INSTALLED ON END OF UNIT IN EITHER THE VERTICAL OR HORIZONTAL CONFIGURATION, PLASTIC DRAIN PAN ACCESS PLATE ON THE END OF UNIT OPPOSITE DRAIN CONNECTION MUST BE REMOVED TO SLIDE DRAIN PAN OUT OF UNIT FOR CLEANING. ACCESS PLATE MUST BE RE-INSTALLED AFTER SLIDING DRAIN PAN BACK INTO UNIT.
3. IF PERIODIC DRAIN PAN CLEANING IS REQUIRED, ALLOW ROOM FOR PARTIAL REMOVAL OF DRAIN PAN CONNECTION AT END OF UNIT.
4. 1" (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION VERTICAL CONFIGURATION.
5. 1" (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION HORIZONTAL CONFIGURATION.
25 1/2" (647.7)
DUCT FLANGE 1" (25.4) HEIGHT
16 1/4" (412.8)
.70" (17.8)
11 11/16" (296.8)
24 1/16" (611.2)
SUPPLY OPEN
47 1/2" (1206.5)
HEATER CONTROL AND SINGLE POWER ENTRY WIRES
8 5/16" (211.1)
12 5/16" (312.7)
HEATER VENTILATION
2 1/4" (57.15)
6 13/16" (173)
16 1/16" (408)
SIDE RETURN
1 9/16" (39.7)
2 3/4" (69.85)
42" (1066.8)
16 7/8" (428.6)
BOTTOM RETURN
1 13/16" (46)
2 3/4" (69.85)
42" (1066.8)
CONTROL WIRING
LINE VOLTAGE
3 1/2" (88.9)
8 13/16" (223.8)
16" (406.4)
CONTROL BOX ACCESS PANEL
1 3/16" (30.2)
DRAIN CONNECTION FOR HORIZONTAL (SEE NOTE 2,3,5)
REMOTE BULB TXV
SUCTION LINE
22 7/8" (581)
16 11/16" (423.9)
17 7/16" (442.9)
20" (508)
FILTER ACCESS PANEL 22" (558.8) MIN. DISTANCE BOTH SIDE
3 5/8" (92.1)
1 11/16" (42.9)
LIQUID LINES
SEE NOTES 2,3,4
COPPER LIQUID LINE FIELD CONNECTION
COPPER SUCTION LINE FIELD CONNECTION
17 3/8" (441.3)
16 11/16" (423.9)
1 9/16" (39.7)
SEE NOTES 2,3,4
3 1/2" (88.9)
1 3/16" (30.16)
45 1/8" (1146.2)
(4) - HOLE FOR HORIZONTAL SUSPENSION
6 3/4" (171.45)
54 1/16" (1373.2)
36 7/8" (936.6)
10 7/16" (265.1)
SUPPLY OPENING
SIDE RETURN
BOTTOM RETURN
SUPPLY VERTICAL - RETURN HORIZONTAL / RETURN VERTICAL
(4) HOLE FOR HORIZONTAL SUSPENSION
BOTTOM RETURN
FILTER
SIDE RETURN
SUPPLY HORIZONTAL - RETURN VERTICAL / RETURN HORIZONTAL

Figure 22. 8.33 ton air handler, single circuit

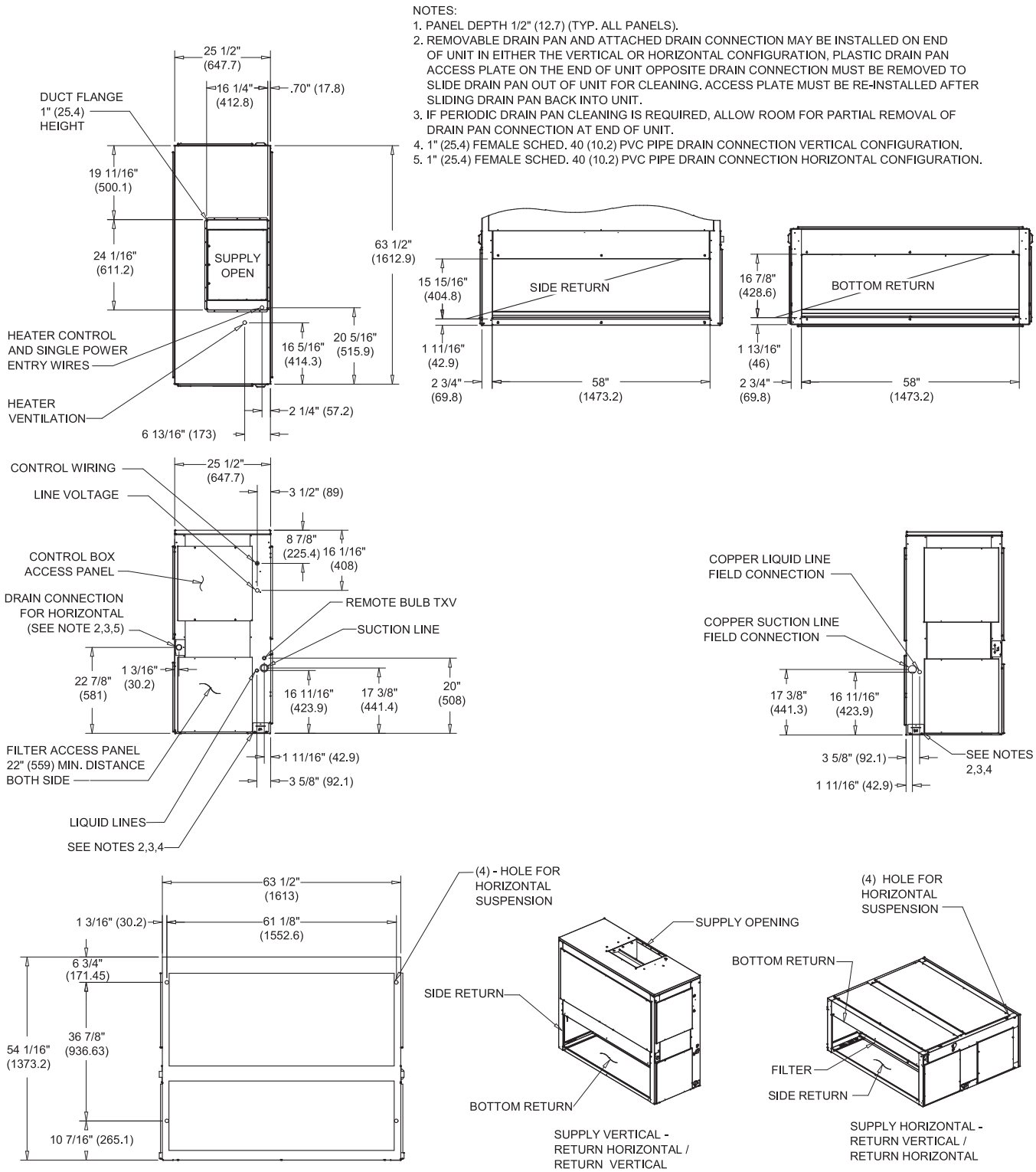

NOTES:
1. PANEL DEPTH 1/2" (12.7) (TYP. ALL PANELS).
2. REMOVABLE DRAIN PAN AND ATTACHED DRAIN CONNECTION MAY BE INSTALLED ON END OF UNIT IN EITHER THE VERTICAL OR HORIZONTAL CONFIGURATION, PLASTIC DRAIN PAN ACCESS PLATE ON THE END OF UNIT OPPOSITE DRAIN CONNECTION MUST BE REMOVED TO SLIDE DRAIN PAN OUT OF UNIT FOR CLEANING. ACCESS PLATE MUST BE RE-INSTALLED AFTER SLIDING DRAIN PAN BACK INTO UNIT.
3. IF PERIODIC DRAIN PAN CLEANING IS REQUIRED, ALLOW ROOM FOR PARTIAL REMOVAL OF DRAIN PAN CONNECTION AT END OF UNIT.
4. 1" (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION VERTICAL CONFIGURATION.
5. 1" (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION HORIZONTAL CONFIGURATION.
25 1/2" (647.7)
16 1/4" (412.8)
.70" (17.8)
DUCT FLANGE 1" (25.4) HEIGHT
19 11/16" (500.1)
24 1/16" (611.2)
SUPPLY OPEN
63 1/2" (1612.9)
HEATER CONTROL AND SINGLE POWER ENTRY WIRES
16 5/16" (414.3)
20 5/16" (515.9)
HEATER VENTILATION
2 1/4" (57.2)
6 13/16" (173)
15 15/16" (404.8)
SIDE RETURN
1 11/16" (42.9)
2 3/4" (69.8)
58" (1473.2)
16 7/8" (428.6)
BOTTOM RETURN
1 13/16" (46)
2 3/4" (69.8)
58" (1473.2)
CONTROL WIRING
LINE VOLTAGE
25 1/2" (647.7)
3 1/2" (89)
8 7/8" (225.4)
16 1/16" (408)
CONTROL BOX ACCESS PANEL
DRAIN CONNECTION FOR HORIZONTAL (SEE NOTE 2,3,5)
REMOTE BULB TXV
SUCTION LINE
22 7/8" (581)
1 3/16" (30.2)
16 11/16" (423.9)
17 3/8" (441.4)
20" (508)
FILTER ACCESS PANEL 22" (559) MIN. DISTANCE BOTH SIDE
1 11/16" (42.9)
3 5/8" (92.1)
LIQUID LINES
SEE NOTES 2,3,4
COPPER LIQUID LINE FIELD CONNECTION
COPPER SUCTION LINE FIELD CONNECTION
17 3/8" (441.3)
16 11/16" (423.9)
3 5/8" (92.1)
1 11/16" (42.9)
SEE NOTES 2,3,4
63 1/2" (1613)
1 3/16" (30.2)
61 1/8" (1552.6)
6 3/4" (171.45)
54 1/16" (1373.2)
36 7/8" (936.63)
10 7/16" (265.1)
(4) - HOLE FOR HORIZONTAL SUSPENSION
SUPPLY OPENING
SIDE RETURN
BOTTOM RETURN
SUPPLY VERTICAL - RETURN HORIZONTAL / RETURN VERTICAL
(4) HOLE FOR HORIZONTAL SUSPENSION
BOTTOM RETURN
FILTER
SIDE RETURN
SUPPLY HORIZONTAL - RETURN VERTICAL / RETURN HORIZONTAL

Figure 23. 8.33 ton air handler, dual circuit

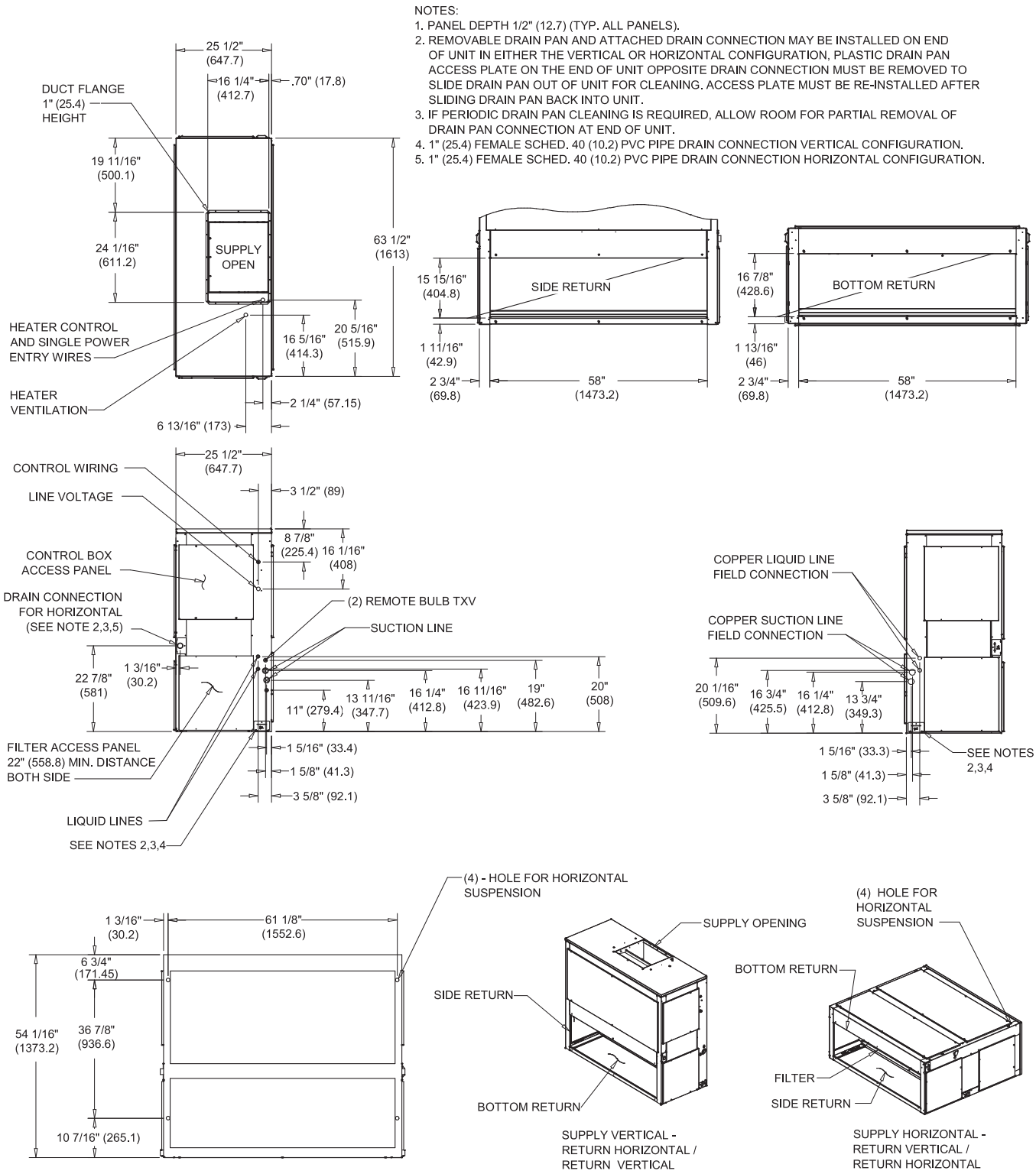

NOTES:
1. PANEL DEPTH 1/2" (12.7) (TYP. ALL PANELS).
2. REMOVABLE DRAIN PAN AND ATTACHED DRAIN CONNECTION MAY BE INSTALLED ON END OF UNIT IN EITHER THE VERTICAL OR HORIZONTAL CONFIGURATION, PLASTIC DRAIN PAN ACCESS PLATE ON THE END OF UNIT OPPOSITE DRAIN CONNECTION MUST BE REMOVED TO SLIDE DRAIN PAN OUT OF UNIT FOR CLEANING. ACCESS PLATE MUST BE RE-INSTALLED AFTER SLIDING DRAIN PAN BACK INTO UNIT.
3. IF PERIODIC DRAIN PAN CLEANING IS REQUIRED, ALLOW ROOM FOR PARTIAL REMOVAL OF DRAIN PAN CONNECTION AT END OF UNIT.
4. 1" (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION VERTICAL CONFIGURATION.
5. 1" (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION HORIZONTAL CONFIGURATION.
25 1/2" (647.7)
16 1/4" (412.7)
.70" (17.8)
DUCT FLANGE 1" (25.4) HEIGHT
19 11/16" (500.1)
24 1/16" (611.2)
SUPPLY OPEN
63 1/2" (1613)
HEATER CONTROL AND SINGLE POWER ENTRY WIRES
HEATER VENTILATION
16 5/16" (414.3)
20 5/16" (515.9)
2 1/4" (57.15)
6 13/16" (173)
15 15/16" (404.8)
SIDE RETURN
1 11/16" (42.9)
2 3/4" (69.8)
58" (1473.2)
16 7/8" (428.6)
BOTTOM RETURN
1 13/16" (46)
2 3/4" (69.8)
58" (1473.2)
CONTROL WIRING
LINE VOLTAGE
CONTROL BOX ACCESS PANEL
DRAIN CONNECTION FOR HORIZONTAL (SEE NOTE 2,3,5)
3 1/2" (89)
8 7/8" (225.4)
16 1/16" (408)
(2) REMOTE BULB TXV
SUCTION LINE
22 7/8" (581)
1 3/16" (30.2)
11" (279.4)
13 11/16" (347.7)
16 1/4" (412.8)
16 11/16" (423.9)
19" (482.6)
20" (508)
FILTER ACCESS PANEL 22" (558.8) MIN. DISTANCE BOTH SIDE
1 5/16" (33.4)
1 5/8" (41.3)
3 5/8" (92.1)
LIQUID LINES
SEE NOTES 2,3,4
COPPER LIQUID LINE FIELD CONNECTION
COPPER SUCTION LINE FIELD CONNECTION
20 1/16" (509.6)
16 3/4" (425.5)
16 1/4" (412.8)
13 3/4" (349.3)
1 5/16" (33.3)
1 5/8" (41.3)
3 5/8" (92.1)
SEE NOTES 2,3,4
1 3/16" (30.2)
61 1/8" (1552.6)
6 3/4" (171.45)
54 1/16" (1373.2)
36 7/8" (936.6)
10 7/16" (265.1)
(4) - HOLE FOR HORIZONTAL SUSPENSION
SUPPLY OPENING
SIDE RETURN
BOTTOM RETURN
SUPPLY VERTICAL - RETURN HORIZONTAL / RETURN VERTICAL
(4) HOLE FOR HORIZONTAL SUSPENSION
BOTTOM RETURN
FILTER
SIDE RETURN
SUPPLY HORIZONTAL - RETURN VERTICAL / RETURN HORIZONTAL

Figure 24. 10.4, 13 ton air handler, dual circuit

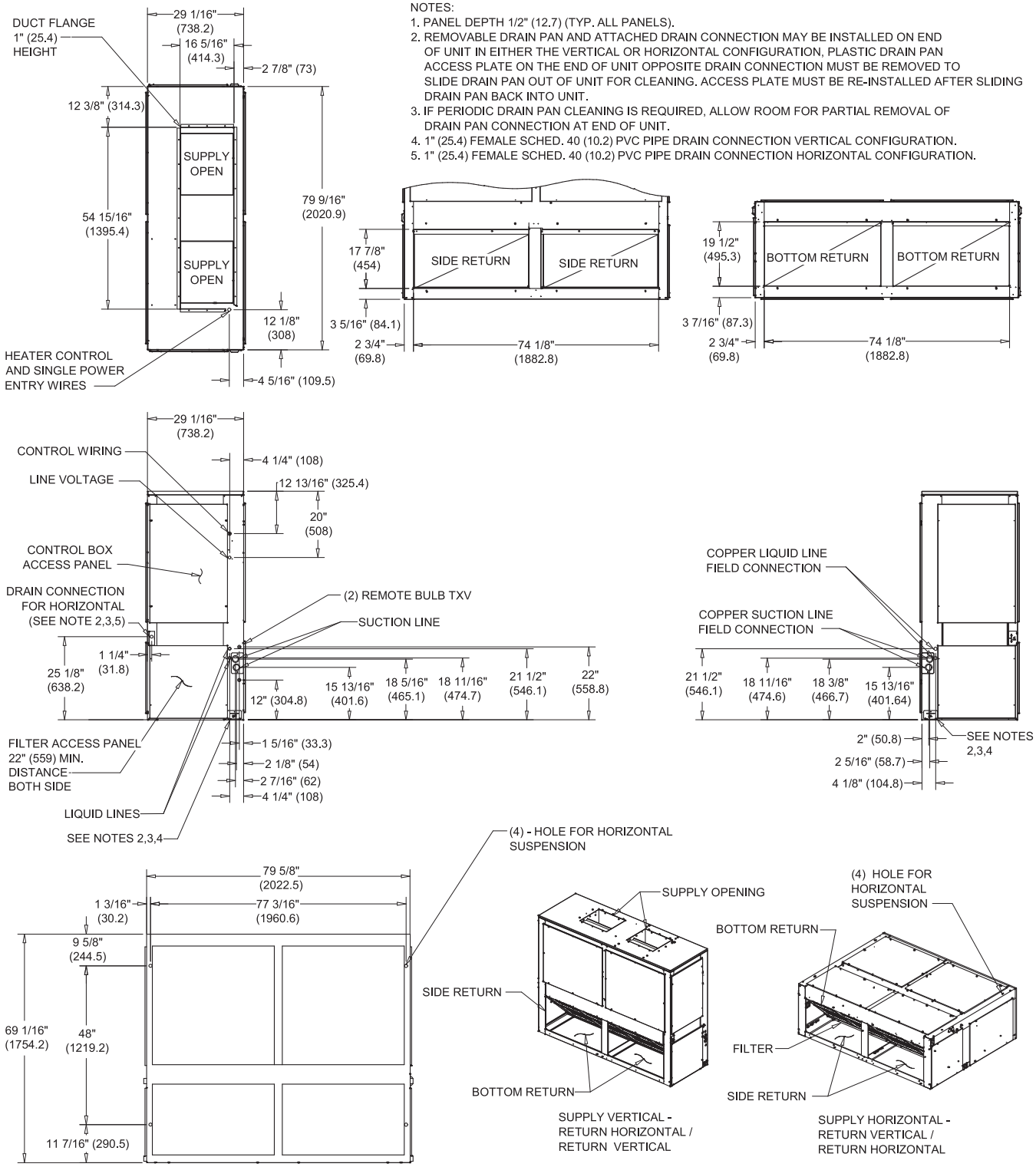
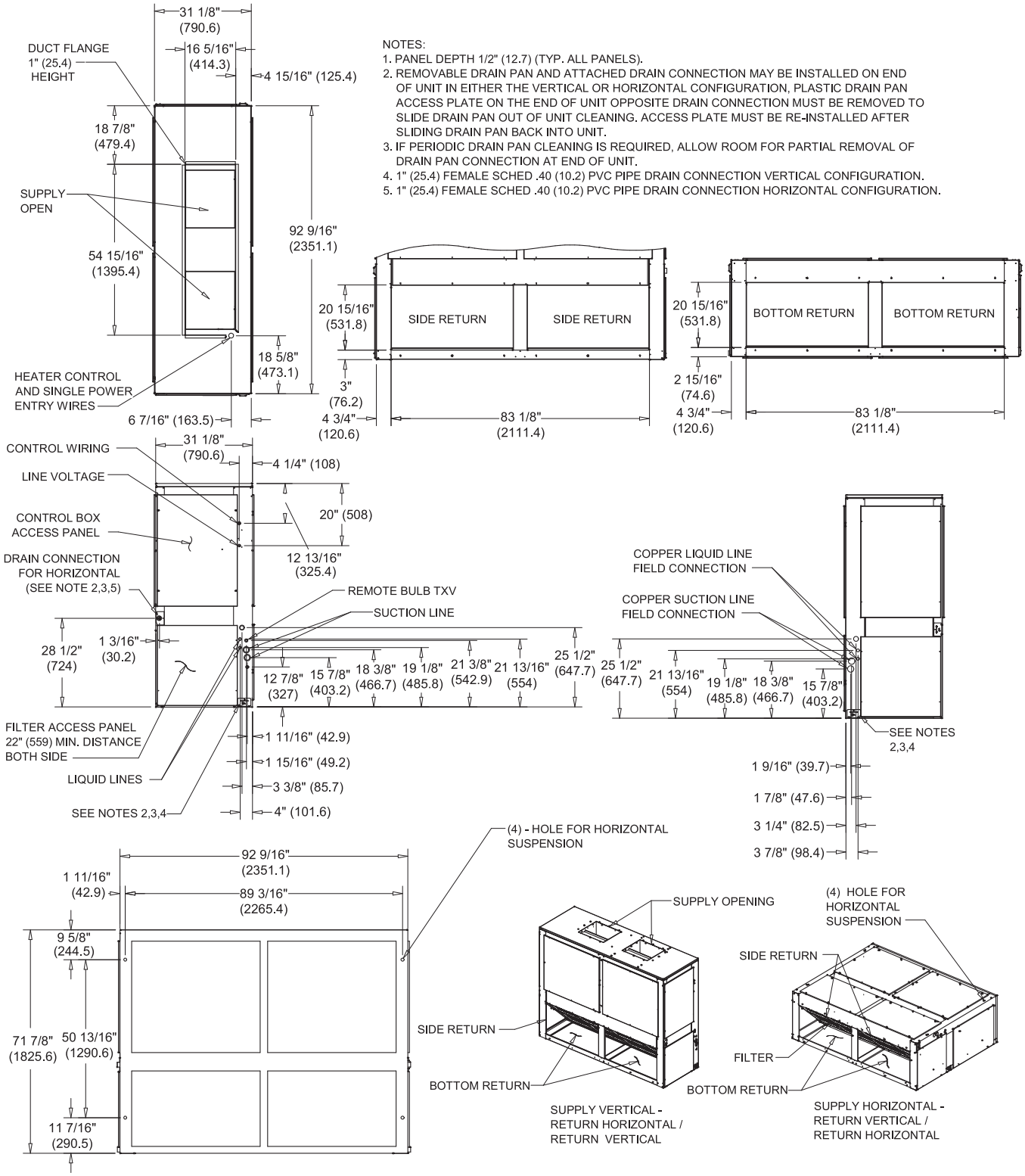
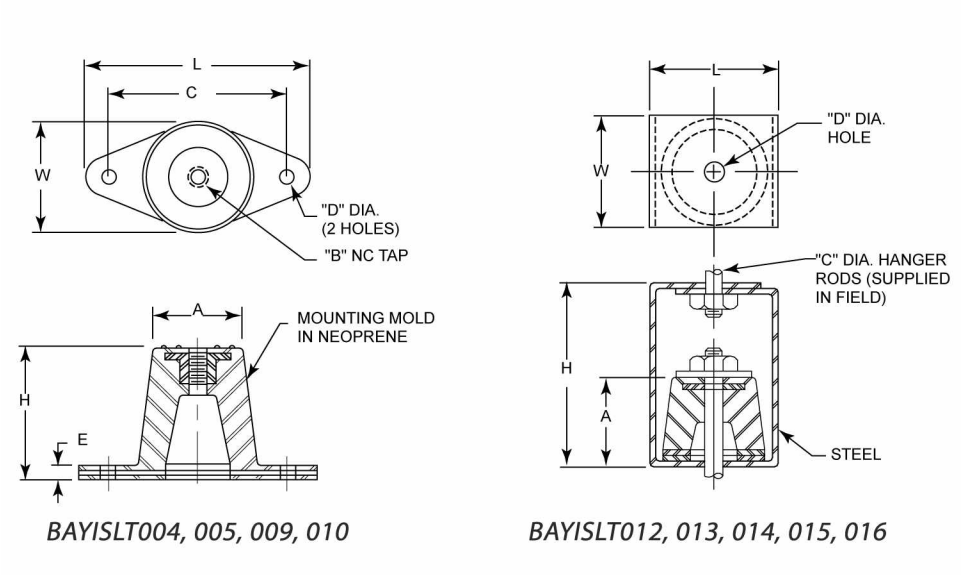

NOTES:
1. PANEL DEPTH 1/2" (12.7) (TYP. ALL PANELS).
2. REMOVABLE DRAIN PAN AND ATTACHED DRAIN CONNECTION MAY BE INSTALLED ON END OF UNIT IN EITHER THE VERTICAL OR HORIZONTAL CONFIGURATION, PLASTIC DRAIN PAN ACCESS PLATE ON THE END OF UNIT OPPOSITE DRAIN CONNECTION MUST BE REMOVED TO SLIDE DRAIN PAN OUT OF UNIT FOR CLEANING. ACCESS PLATE MUST BE RE-INSTALLED AFTER SLIDING DRAIN PAN BACK INTO UNIT.
3. IF PERIODIC DRAIN PAN CLEANING IS REQUIRED, ALLOW ROOM FOR PARTIAL REMOVAL OF DRAIN PAN CONNECTION AT END OF UNIT.
4. 1" (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION VERTICAL CONFIGURATION.
5. 1" (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION HORIZONTAL CONFIGURATION.
DUCT FLANGE 1" (25.4) HEIGHT
29 1/16" (738.2)
16 5/16" (414.3)
2 7/8" (73)
12 3/8" (314.3)
SUPPLY OPEN
SUPPLY OPEN
54 15/16" (1395.4)
79 9/16" (2020.9)
12 1/8" (308)
HEATER CONTROL AND SINGLE POWER ENTRY WIRES
4 5/16" (109.5)
17 7/8" (454)
SIDE RETURN
SIDE RETURN
3 5/16" (84.1)
2 3/4" (69.8)
74 1/8" (1882.8)
19 1/2" (495.3)
BOTTOM RETURN
BOTTOM RETURN
3 7/16" (87.3)
2 3/4" (69.8)
74 1/8" (1882.8)
29 1/16" (738.2)
CONTROL WIRING
LINE VOLTAGE
4 1/4" (108)
12 13/16" (325.4)
20" (508)
CONTROL BOX ACCESS PANEL
DRAIN CONNECTION FOR HORIZONTAL (SEE NOTE 2,3,5)
(2) REMOTE BULB TXV
SUCTION LINE
1 1/4" (31.8)
25 1/8" (638.2)
12" (304.8)
15 13/16" (401.6)
18 5/16" (465.1)
18 11/16" (474.7)
21 1/2" (546.1)
22" (558.8)
FILTER ACCESS PANEL 22" (559) MIN. DISTANCE BOTH SIDE
1 5/16" (33.3)
2 1/8" (54)
2 7/16" (62)
4 1/4" (108)
LIQUID LINES
SEE NOTES 2,3,4
COPPER LIQUID LINE FIELD CONNECTION
COPPER SUCTION LINE FIELD CONNECTION
21 1/2" (546.1)
18 11/16" (474.6)
18 3/8" (466.7)
15 13/16" (401.64)
2" (50.8)
2 5/16" (58.7)
4 1/8" (104.8)
SEE NOTES 2,3,4
(4) - HOLE FOR HORIZONTAL SUSPENSION
79 5/8" (2022.5)
1 3/16" (30.2)
77 3/16" (1960.6)
9 5/8" (244.5)
69 1/16" (1754.2)
48" (1219.2)
11 7/16" (290.5)
SUPPLY OPENING
SIDE RETURN
BOTTOM RETURN
SUPPLY VERTICAL - RETURN HORIZONTAL / RETURN VERTICAL
(4) HOLE FOR HORIZONTAL SUSPENSION
BOTTOM RETURN
FILTER
SIDE RETURN
SUPPLY HORIZONTAL - RETURN VERTICAL / RETURN HORIZONTAL

Figure 25. 16.7, 20.9 ton air handler, dual circuit


31 1/8" (790.6)
DUCT FLANGE 1" (25.4) HEIGHT
16 5/16" (414.3)
4 15/16" (125.4)
18 7/8" (479.4)
SUPPLY OPEN
54 15/16" (1395.4)
92 9/16" (2351.1)
18 5/8" (473.1)
HEATER CONTROL AND SINGLE POWER ENTRY WIRES
6 7/16" (163.5)
NOTES:
1. PANEL DEPTH 1/2" (12.7) (TYP. ALL PANELS).
2. REMOVABLE DRAIN PAN AND ATTACHED DRAIN CONNECTION MAY BE INSTALLED ON END OF UNIT IN EITHER THE VERTICAL OR HORIZONTAL CONFIGURATION, PLASTIC DRAIN PAN ACCESS PLATE ON THE END OF UNIT OPPOSITE DRAIN CONNECTION MUST BE REMOVED TO SLIDE DRAIN PAN OUT OF UNIT CLEANING. ACCESS PLATE MUST BE RE-INSTALLED AFTER SLIDING DRAIN PAN BACK INTO UNIT.
3. IF PERIODIC DRAIN PAN CLEANING IS REQUIRED, ALLOW ROOM FOR PARTIAL REMOVAL OF DRAIN PAN CONNECTION AT END OF UNIT.
4. 1" (25.4) FEMALE SCHED .40 (10.2) PVC PIPE DRAIN CONNECTION VERTICAL CONFIGURATION.
5. 1" (25.4) FEMALE SCHED .40 (10.2) PVC PIPE DRAIN CONNECTION HORIZONTAL CONFIGURATION.
20 15/16" (531.8)
SIDE RETURN
SIDE RETURN
3" (76.2)
4 3/4" (120.6)
83 1/8" (2111.4)
20 15/16" (531.8)
BOTTOM RETURN
BOTTOM RETURN
2 15/16" (74.6)
4 3/4" (120.6)
83 1/8" (2111.4)
CONTROL WIRING
LINE VOLTAGE
CONTROL BOX ACCESS PANEL
DRAIN CONNECTION FOR HORIZONTAL (SEE NOTE 2,3,5)
31 1/8" (790.6)
4 1/4" (108)
20" (508)
12 13/16" (325.4)
REMOTE BULB TXV
SUCTION LINE
28 1/2" (724)
1 3/16" (30.2)
12 7/8" (327)
15 7/8" (403.2)
18 3/8" (466.7)
19 1/8" (485.8)
21 3/8" (542.9)
21 13/16" (554)
25 1/2" (647.7)
FILTER ACCESS PANEL 22" (559) MIN. DISTANCE BOTH SIDE
LIQUID LINES
SEE NOTES 2,3,4
1 11/16" (42.9)
1 15/16" (49.2)
3 3/8" (85.7)
4" (101.6)
COPPER LIQUID LINE FIELD CONNECTION
COPPER SUCTION LINE FIELD CONNECTION
25 1/2" (647.7)
21 13/16" (554)
19 1/8" (485.8)
18 3/8" (466.7)
15 7/8" (403.2)
SEE NOTES 2,3,4
1 9/16" (39.7)
1 7/8" (47.6)
3 1/4" (82.5)
3 7/8" (98.4)
92 9/16" (2351.1)
1 11/16" (42.9)
89 3/16" (2265.4)
9 5/8" (244.5)
71 7/8" (1825.6)
50 13/16" (1290.6)
11 7/16" (290.5)
(4) - HOLE FOR HORIZONTAL SUSPENSION
SUPPLY OPENING
SIDE RETURN
BOTTOM RETURN
SUPPLY VERTICAL - RETURN HORIZONTAL / RETURN VERTICAL
(4) HOLE FOR HORIZONTAL SUSPENSION
SIDE RETURN
FILTER
BOTTOM RETURN
SUPPLY HORIZONTAL - RETURN VERTICAL / RETURN HORIZONTAL

Accessories

Figure 26. Rubber isolator accessory dimensions



BAYISLT004, 005, 009, 010

BAYISLT012, 013, 014, 015, 016

Table 101. Rubber isolator accessory dimensions

Model No.	L	W	H	A	B	C	D	E
BAYISLT004	3-1/8 (79.375)	1-3/4 (44.45)	1-1/4 (31.75)	1-1/4 (31.75)	3/8 (9.525)	2-3/8 (60.325)	3/8 (9.525)	1/4 (6.35)
BAYISLT005	3-7/8 (98.425)	2-3/8 (60.325)	1-3/4 (44.45)	1-3/4 (44.45)	3/8 (9.525)	3 (76.2)	3/8 (9.525)	1/4 (6.35)
BAYISLT009	3-7/8 (98.425)	2-3/8 (60.325)	1-3/4 (44.45)	1-3/4 (44.45)	3/8 (9.525)	3 (76.2)	3/8 (9.525)	1/4 (6.35)
BAYISLT010	3-7/8 (98.425)	2-3/8 (60.325)	1-3/4 (44.45)	1-3/4 (44.45)	3/8 (9.525)	3 (76.2)	3/8 (9.525)	1/4 (6.35)
BAYISLT013	2-1/4 (57.15)	2 (50.8)	3 (76.2)	1-3/8 (34.925)	3/4 (19.05)	3/8 (9.525)	1/2 (12.7)	—
BAYISLT014	2-1/4 (57.15)	2 (50.8)	3 (76.2)	1-3/8 (34.925)	3/4 (19.05)	3/8 (9.525)	1/2 (12.7)	—
BAYISLT015	2-1/4 (57.15)	2 (50.8)	3 (76.2)	1-3/8 (34.925)	3/4 (19.05)	3/8 (9.525)	1/2 (12.7)	—
BAYISLT012	3 (76.2)	2-1/4 (57.15)	4-1/2 (114.3)	1-7/8 (47.625)	1/4 (6.35)	5/8 (15.875)	3/4 (19.05)	—
BAYISLT015 (a)	3 (76.2)	2-1/4 (57.15)	4-1/2 (114.3)	1-7/8 (47.625)	1/4 (6.35)	5/8 (15.875)	3/4 (19.05)	—
BAYISLT016	3 (76.2)	2-1/4 (57.15)	4-1/2 (114.3)	1-7/8 (47.625)	1/4 (6.35)	5/8 (15.875)	3/4 (19.05)	—

Note: BAYISLT015 contains a quantity 2 of the 2-1/4 x 2 x 3 isolators and quantity of 3 of the 3 x 2-1/4 x 4-1/2 isolators.

Figure 27. Spring isolator accessory dimensions – inches (millimeters)

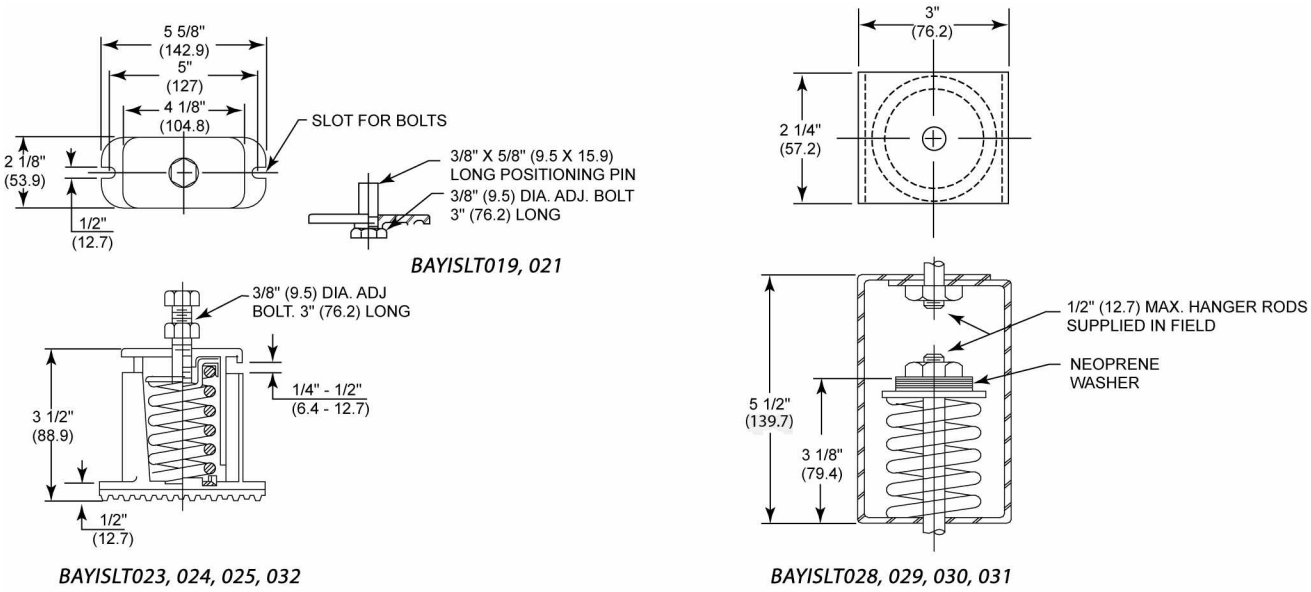


Figure 28. Electric heater accessory for 4.6-8.3 ton air handlers – inches (millimeters)

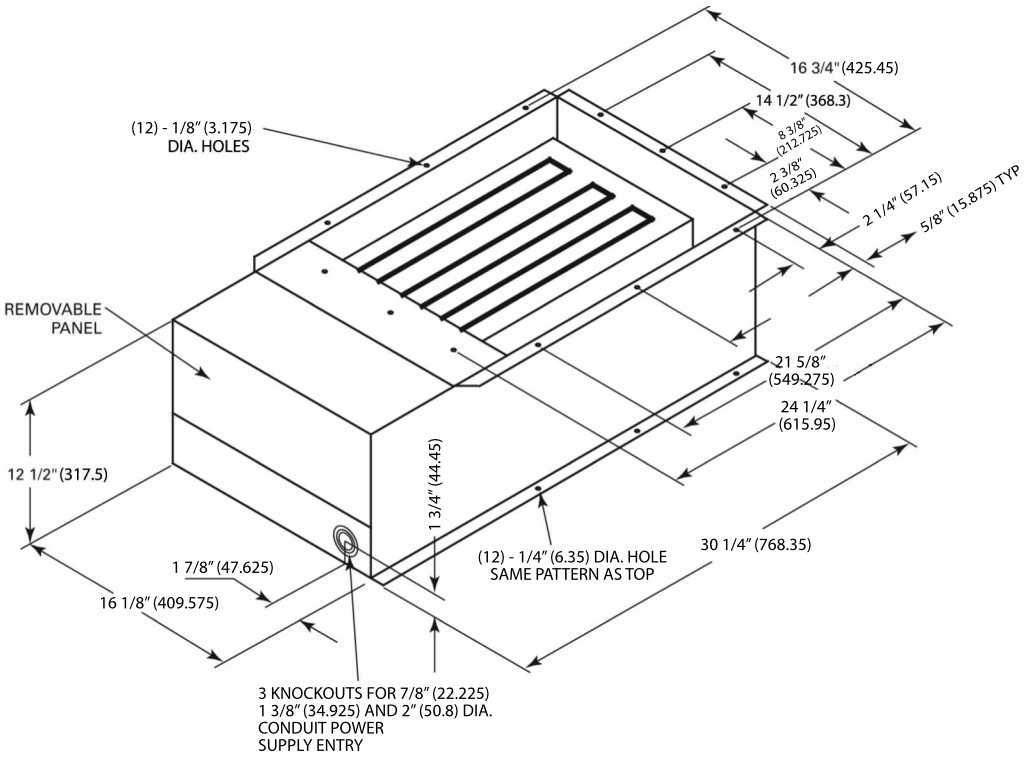


Figure 29. Electric heater accessory for 8.3-20.9 ton air handlers – inches (millimeters)

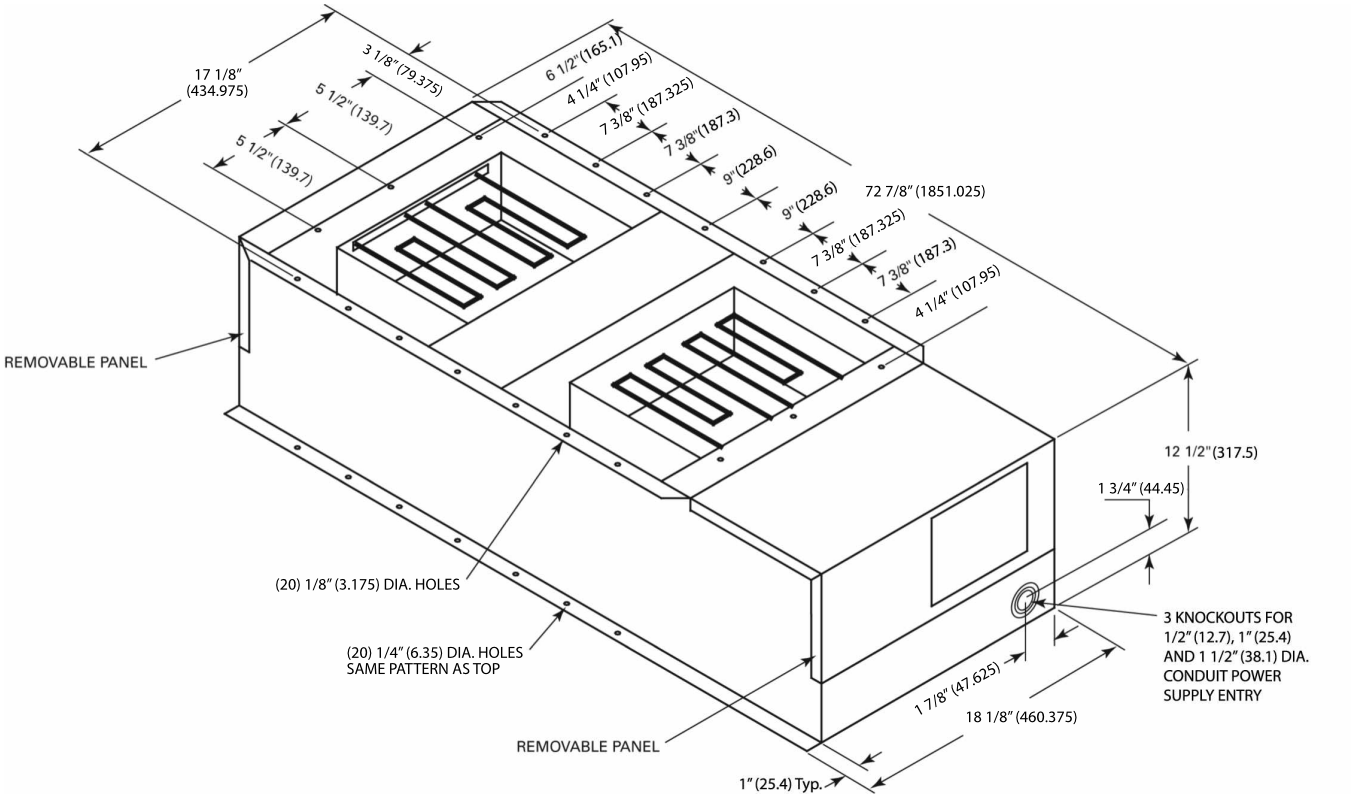


Image Tag Expected within Figure Tag

Figure 30. Hot water coil accessory – inches (millimeters)

Table 102. Hot water coil accessory – inches (millimeters)

Model No.	A	B	C	D	E	F	G	H	J	K	L
BAYWATR027	38.14 (969)	22.74 (576)	13.74 (349)	5 (127)	9 (229)	13.65 (347)	16 (406)	26 (660)	12 (305)	6 (152)	4.94 (125)
BAYWATR028	47.74 (1213)	25.74 (654)	15.95 (405)	5 (127)	10.84 (275)	17.17 (436)	16 (406)	30 (762)	18 (457)	8.88 (225)	8.45 (215)
BAYWATR029	63.84 (1621)	25.74 (654)	15.95 (405)	6 (152)	11.84 (301)	17.16 (436)	18 (457)	36 (914)	18 (457)	13.88 (352)	8.45 (215)
BAYWATR030	79.74 (2025)	29.18 (741)	14.36 (365)	8 (203)	10.85 (276)	19.67 (500)	22 (559)	51 (1295)	18 (457)	14.25 (362)	6.86 (174)
BAYWATR031	92.74 (2356)	31.24 (793)	16.48 (419)	8 (203)	10.85 (276)	19.67 (500)	22 (559)	64 (1626)	18 (457)	14.25 (362)	8.98 (228)

Model No.	M	N	P	Q
BAYWATR027	7.79 (198)	2.88 (73)	10.24 (260)	2 NPT (51) NPTI (a)
BAYWATR028	10.27 (261)	2.88 (73)	7.77 (197)	2.5 NPTI (64) NPTI
BAYWATR029	10.03 (255)	2.88 (73)	7.58 (192)	2.5 NPTI (64) NPTI
BAYWATR030	9.91 (252)	1.88 (48)	7.41 (188)	2.5 NPTI (64) NPTI
BAYWATR031	9.88 (251)	3.75 (95)	7.38 (187)	2.5 NPTI (64) NPTI

Figure 31. Steam coil accessory – inches (millimeters)

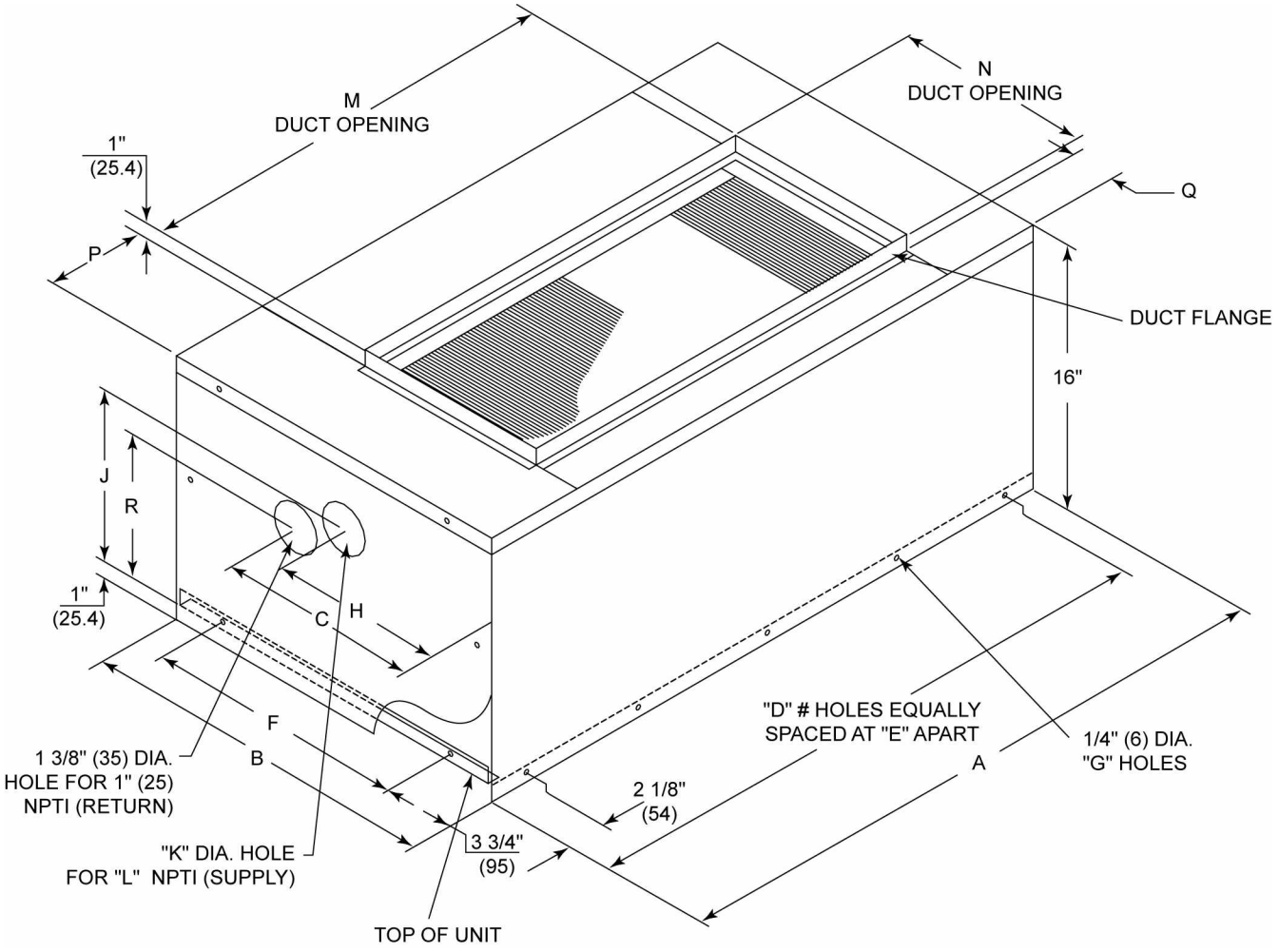


Table 103. Steam coil accessory – inches (millimeters)

Model No.	A	B	C	D	E	F	G	H	J	K	L
BAYWATR012	38.14 (969)	22.74 (577)	14.32 (364)	5 (127)	9 (229)	13.67 (347)	16 (406)	10.88 (276)	11.17 (284)	2 (51)	1.5 (38)
BAYWATR013	47.74 (1212)	25.74 (654)	20.14 (511)	5 (127)	10.84 (275)	17.17 (436)	16 (406)	10.88 (276)	11.17 (284)	2 (51)	2 (51)
BAYWATR014	63.84 (1621)	25.74 (654)	20.14 (511)	6 (152)	11.87 (301)	17.16 (436)	18 (457)	13.70 (348)	10.57 (268)	2.5 (64)	2 (51)
BAYWATR015	79.74 (2025)	29.18 (741)	18.55 (471)	8 (203)	10.85 (275)	19.67 (500)	22 (559)	12.11 (308)	10.05 (255)	2.5 (64)	2 (51)
BAYWATR016	92.74 (2355)	31.24 (793)	20.67 (525)	8 (203)	10.85 (275)	19.67 (500)	22 (559)	14.23 (361)	10.01 (254)	2.5 (64)	2 (51)

Model No.	M	N	P	Q	R
BAYWATR012	26 (660)	12 (305)	6 (152)	2.87 (73)	9.95 (253)
BAYWATR013	30 (762)	18 (457)	8.87 (225)	2.87 (73)	9.95 (253)
BAYWATR014	36 (914)	18 (457)	13.87 (352)	2.87 (73)	9.13 (232)
BAYWATR015	51 (1295)	18 (457)	14.12 (359)	1.87 (48)	8.61 (219)
BAYWATR016	64 (1626)	18 (457)	14.12 (359)	3.75 (95)	8.58 (218)

Figure 32. Discharge plenum and grille accessory

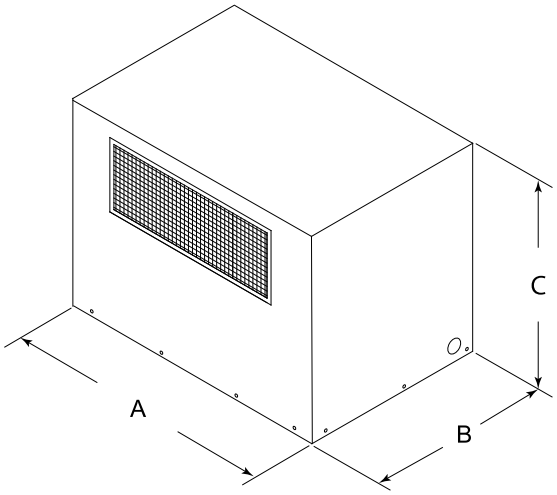


Table 104. Discharge plenum and grille dimensions – no heat – inches (millimeters)

Unit	Model No.[a]	A	B	C
TWE051	BAYPLNM015	37.94 (963.6)	21.94 (557.2)	28 (711.2)
TWE076	BAYPLNM016	47.5 (1206.5)	24.99 (634.7)	28 (711.2)
TWE101	BAYPLNM017	63.5 (1612.9)	24.99 (634.7)	28 (711.2)
TWE126, TWE156	BAYPLNM018[b]	79.5 (2019.3)	27.63 (701.8)	22 (558.8)
TWE201, TWE251	BAYPLNM019[b]	92.5 (2349.5)	30.43 (772.9)	24 (609.6)
TWE051	BAYPLNM020	37.91 (962.9)	21.91 (556.5)	14.75 (374.65)
TWE076	BAYPLNM021	47.5 (1206.5)	24.99 (634.7)	14.75 (374.65)
TWE126	BAYPLNM022	63.5 (1612.9)	24.99 (634.7)	14.75 (374.65)

[a] When installed horizontally, plenum/water coil must be self-supported.
[b] For use with hydronic heat or no heat.

Figure 33. Discharge plenum and grille accessory

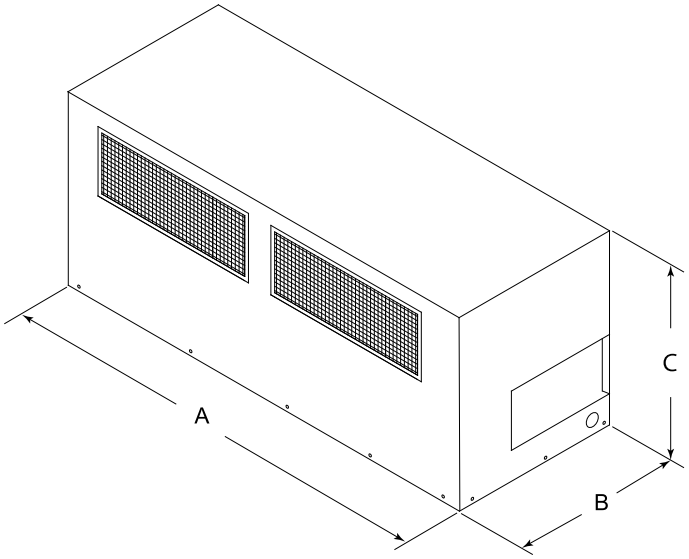


Table 105. Discharge plenum and grille dimensions – inches (millimeters) – (for use with electric heat)

Tons	Model No.	A	B	C
TWE051	BAYPLNM030	38.07 (967)	22.69 (576.3)	29.05 (738)
TWE076	BAYPLNM031	47.86 (1216)	25.69 (652.5)	29.05 (738)
TWE101	BAYPLNM032	63.86 (1622)	25.69 (652.5)	29.05 (738)
TWE126, TWE156	BAYPLNM033	80.14 (2036)	29.10 (739.1)	35.11 (892)
TWE201, TWE251	BAYPLNM034	92.96 (2361)	31.10 (789.9)	35.05 (890)

Figure 34. Subbase accessory – inches (millimeters)

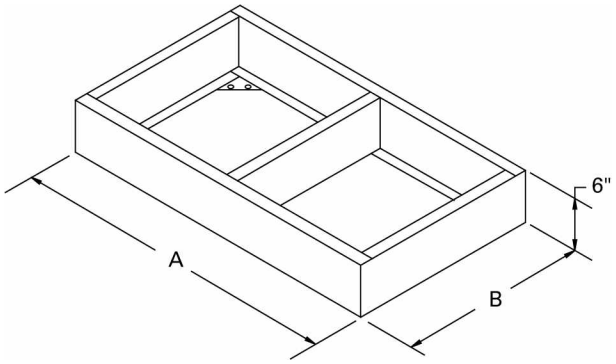


Table 106. Subbase dimensions – inches (millimeters)

Tons	Model No.	A	B
TWE051	BAYBASE009	38 (965.2)	22.63 (574.8)
TWE076	BAYBASE010	47.5 (1206.5)	25.51 (648.0)
TWE101	BAYBASE011	63.5 (1612.9)	25.52 (648.2)
TWE126, TWE156	BAYBASE012	79.5 (2019.3)	29.04 (737.6)
TWE201, TWE251	BAYBASE013	92.5 (2349.5)	31.14 (791.0)

Weights

Cooling Condenser

Table 107. TTA unit and corner weights — lbs (50 Hz)

Tons	Model No.	Shipping Max (kg)	Net Max (kg)	Corner Weights			
				1	2	3	4
5	TTA061G	140	110	31	33	16	30
6.25	TTA076G	144	115	32	34	17	31
	TTA076H	173	144	45	42	29	28
8.33	TTA101G	188	155	52	40	27	35
	TTA101H	193	160	50	46	32	31
	TTA101F	229	197	58	63	37	39
10.4	TTA126E	244	211	59	68	36	49
13	TTA156E	383	325	93	92	68	72
	TTA156F	383	326	88	94	69	76
16.7	TTA201E	437	377	118	108	74	77
	TTA201F	435	376	116	112	69	79
20.9	TTA251F	530	470	153	121	109	88

Figure 35. TTA061, 076, 101

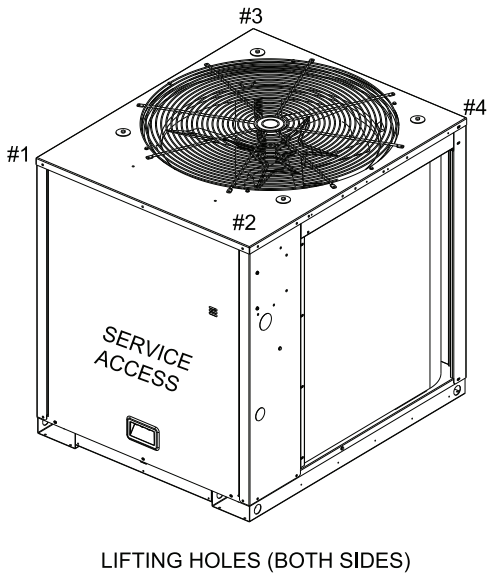
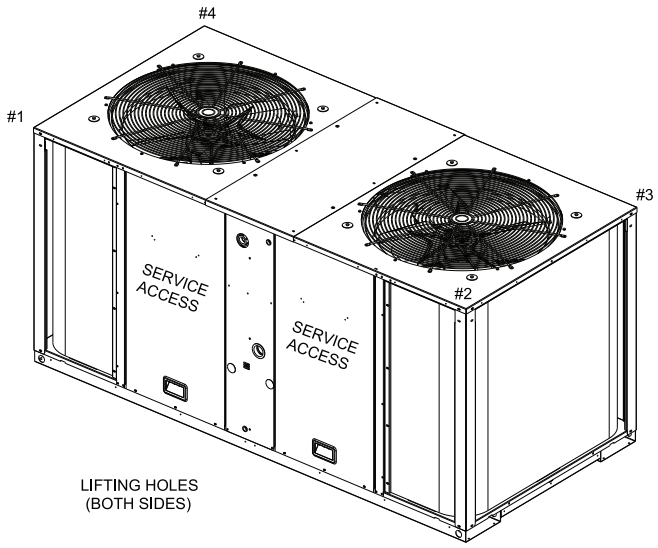


Figure 36. TTA156, 201, 251



Air Handler

Table 108. Standard air handler (TWE) — unit and corner weights - (50 Hz)

1	2	3	4	1	2	3	4				
4.6	TWE051D	263	232	55	71	51	55	54	67	50	61
6.25	TWE076D/E	360	323	67	99	75	82	56	92	87	88
8.33	TWE101D/E	429	393	77	121	110	85	79	118	77	119
10.4	TWE126E	730	676	168	192	181	135	196	164	145	171
13	TWE156E	729	675	167	192	181	135	196	163	145	171

Table 108. Standard air handler (TWE) — unit and corner weights - (50 Hz) (continued)

16.7	TWE201E	891	818	258	168	161	231	256	181	146	235
20.9	TWE251E	972	899	211	229	184	275	272	176	228	223

Figure 37. Vertical — TWE051, 076, 101

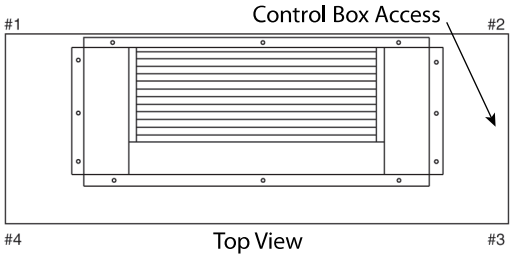


Figure 38. Vertical — TWE126, 156, 201, 251

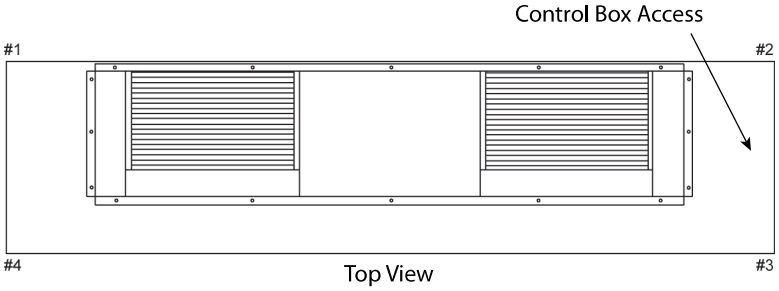


Figure 39. Horizontal — TWE051, 076, 101

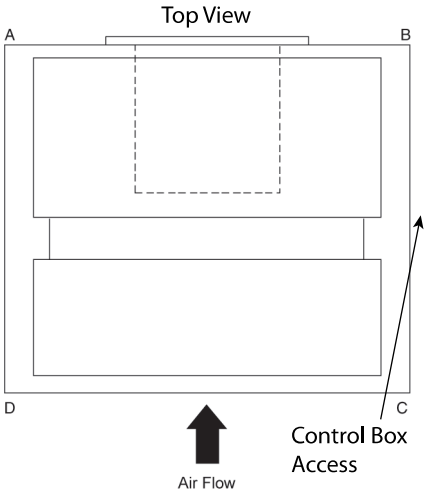
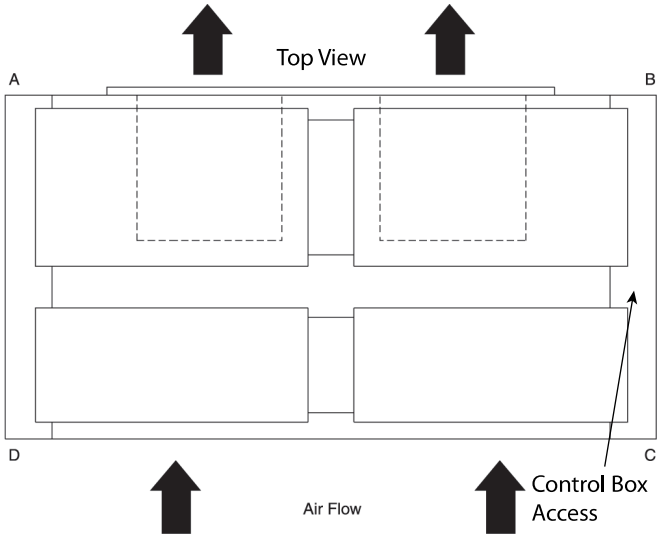


Figure 40. Horizontal — TWE126, 156, 201, 251



Mechanical Specifications

Condensing Units

Standard Options

General

- Weatherproofed steel mounting/lifting rails
- Hermetic scroll compressors
- Microchannel condenser coils on select models
- Plate fin condenser coils
- Fans and motors
- Standard operating range 50-125°F (min. 0°F with low ambient accessory)
- Nitrogen holding charge

Casing

- Zinc coated, heavy gauge, galvanized steel
- Weather resistant baked enamel finish
- Meets ASTM B117, 672 hour salt spray test
- Removable single side maintenance access panels
- Lifting handles in maintenance access panels
- Unit base provisions for forklift and/or crane lifting

Refrigeration System - Single Compressor (TTA061G, TTA076G, TTA101G)

- Single refrigeration circuit with integral subcooling circuit
- Single direct drive hermetic scroll compressor
- Suction gas-cooled motor w/ ± 10% voltage utilization range of unit nameplate voltage
- Crankcase heater
- Internal temperature and current sensitive motor overloads
- No compressor suction and/or discharge valves (reduced vibration/sound)
- Factory installed liquid line filter drier
- Phase loss/reverse rotation monitor
- Liquid line service valve (with gauge port)
- Suction line service valve (with gauge port)
- External high pressure cutout device
- External low pressure cutout device
- Evaporator defrost control
- Loss of charge protection (discharge temperature limit)

Refrigeration System - Dual Compressor (TTA076H, TTA101H, TTA126E, TTA156E, TTA201E)

- Two (2) separate and independent refrigerant circuits
- Each refrigeration circuit equipped with integral subcooling circuit
- Two (2) direct drive hermetic scroll compressor
- Suction gas-cooled motors w/ ± 10% voltage utilization range of unit nameplate voltage
- Crankcase Heaters
- Internal temperature and current sensitive motor overloads
- Factory installed liquid line filter driers
- Phase loss/reverse rotation monitor
- Liquid line service valves (with gauge port)
- Suction line service valves (with gauge port)
- No compressor suction and/or discharge valves (reduced vibration/sound)
- External high pressure cutout devices
- External low pressure cutout devices
- Evaporator defrost control

- Loss of charge protection (discharge temperature limit)

Refrigeration System - Dual Manifolded Compressors (TTA101F, TTA156F, TTA201F, TTA251F)

- Single refrigerant circuit with integral subcooling circuit
- Two (2) direct drive hermetic scroll compressor
- Suction gas-cooled motors w/ ± 10% voltage utilization range of unit nameplate voltage
- Crankcase Heaters
- Internal temperature and current sensitive motor overloads
- No compressor suction and/or discharge valves (reduced vibration/sound)
- Factory installed liquid line filter drier
- Phase loss/reverse rotation monitor
- Liquid line service valve (with gauge port)
- Suction line service valve (with gauge port)
- External high pressure cutout devices
- External low pressure cutout devices
- Evaporator defrost control
- Loss of charge protection (discharge line thermostats)
- Front or rear refrigerant line connections (TTA251 F only)

Condenser Coil (Fin and Tube)

- 3/8″ internally enhanced copper tube
- Mechanically bonded to lanced aluminum plate fins
- Factory pressure and leak tested to 660 psig
- Perforated steel hail guards available (factory installed option or field installed accessory)

Condenser Coil (Microchannel)

- Microchannel coils burst tested by the manufacturer
- Coils shall be leak tested to ensure the pressure integrity
- Factory pressure and leak tested to 660 psig
- Perforated steel hail guards available (factory installed option or field installed accessory)

Condenser Fan

- 26" or 28" propeller fan(s)
- Direct drive
- Statically and dynamically balanced

Condenser Motor(s)

- Permanently lubricated totally enclosed or open construction
- Built-in current and thermal overloads
- Ball or sleeve bearing type

Controls

- Choice of electromechanical or microprocessor
- Completely internally wired
- Numbered and colored wires
- Contactor pressure lugs or terminal block
- Unit external mounting location for disconnect device
- Single point power entry
- Front or rear electrical connections (TTA251 F only)

Factory Installed Options

Hail Guards

- Condenser coil protection from hail, vandals, etc.
- Perforated, painted galvanized steel

- Factory or field installed

Black Epoxy Coated Condenser Coil (Fin and Tube)

- Thermoset vinyl coating
- Bonded to aluminum fin stock (prior to fin-stamping process)
- Economical protectant in mildly corrosive environments

Complete Coat™ Microchannel Condenser Coil

- Available on Microchannel units only
- Cathodic, epoxy-type, electro-disposition coating formulated for high edge build
- Coating provides excellent resistance and durability to corrosive effects of alkalies, acids, alcohols, petroleum, seawater, salty air and other corrosive environments

LonTalk Communication Interface

- Factory or field installed
- Communications board
- Allows unit communication as a Tracer™ LCI-R device
- Allows unit communication with generic LonTalk® Network building automation controls

Controls: Electro-Mechanical

- 24V control circuit
- Control transformer
- Thermostat compatible
- Anti-Short Cycle Timer

Controls: Microprocessor

- Centralized processor
- Indoor and outdoor temperature sensors drive algorithms, making decisions for all heating, cooling, and ventilation
- Integrated anti-short cycle timer
- Integrated time delay between compressors

Field Installed Options

Low Ambient (Fan ON/OFF)

- Provides unit cooling operation to outdoor ambient of 0°F
- Low cost solution
- Liquid line temperature controls condenser fan operation
- 1 kit per condenser fan required

Low Ambient (Modulating)

- Provides unit cooling operation to outdoor ambient of 0°F
- “Wave-chopper”
- Discharge line pressure controls condenser fan operation
- 1 kit per condenser fan required

Vibration Isolators

- Neoprene-in-shear or spring flex choice
- Reduce vibration transmission to building structures, equipment, and adjacent spaces
- Reduce noise transmission to building structures, equipment, and adjacent spaces

Hot Gas Bypass

- Provides capacity modulation solution

Zone Sensor

- Interfaces with microprocessor units
- Manual or automatic programmable

- System malfunction lights
- Remote sensor options
- Wireless option

Thermostat

- 1H/1C available
- 2H/1C available
- Manual or automatic changeover available
- Programmable and non-programmable solutions available

LonTalk Communication Interface

- Factory or field installed
- Communications board
- Allows unit communication as a Tracer™ LCI-R device
- Allows unit communication with generic LonTalk® Network building automation controls

BACnet Communication Interface

- Communicates directly with a generic open protocol BACnet MS/TP Network building automation system control

Air Handlers

Standard Options

General

- Completely factory assembled
- Convertible for horizontal or vertical configuration
- Convertible for cooling only or heat pump application
- Convertible for left or right external connections (refrigerant and/or electrical)
- Convertible for front or bottom air return
- Nitrogen holding charge

Casing

- Zinc coated, heavy gauge, galvanized steel
- Weather resistant baked enamel finish
- Access panels with captive screws
- Completely insulated with foil faced, cleanable, fire retardant, permanent, odorless glass fiber material
- Captured or sealed insulation edges
- Electrical connection bushings or plugs
- Refrigerant connection bushings or plugs
- Withstand elevated internal static pressure

Refrigeration System

- Single or dual circuit
- Distributor(s)
- Thermal expansion valves (TXVs)

Evaporator Coil

- 3/8” internally enhanced copper tube mechanically bonded to lanced aluminum plate fins
- Factory pressure and leak tested to 449 psig.
- Draw-through airflow
- Dual circuits are interlaced/intertwined
- Double sloped, removable, cleanable, composite drain pan
- Four drain pan positions

Indoor Fan

- Double inlet, double width, forward curved, centrifugal type fan
- Dual fans on 10.4 – 20.9 ton air handlers
- Adjustable belt drive
- Permanently lubricated bearings

Indoor Motor

- Adjustable motor sheaves (standard units)
- Thermal overload protection
- Permanently lubricated bearings
- Meet energy policy of 1992 (EPACT)
- Optional oversized motors for high static applications

Controls

- Completely internally wired
- Numbered and colored wires
- Magnetic indoor fan contactor
- Low voltage terminal strip
- Single point power entry
- Evaporator defrost control

Filters

- Access from side coil panels
- Filters slide on rack
- One inch (1"), throwaway filters on 4.6 - 8.3 ton units
- Filter rack convertible to two inch (2") capability on 4.6 - 8.33 ton units
- Two inch (2"), throwaway filters on 10.4 - 20.9 ton units

Field Installed Options

Electric Heaters

- Heavy duty nickel chromium elements
- Installs directly on fan discharge
- One or two stage control (dependent upon capacity)
- Single point power entry
- Terminal strip connections
- 460V Heaters
  - Internally wye connected
  - Automatic line break high limit controls
- 230V Heaters
  - Internally delta connected
  - Automatic reset of high limit controls through pilot duty with secondary backup fuse links

Hydronic Heat Coils

- One row steam
- Two row hot water
- Installs directly on fan discharge
- Heavy gauge sheet metal casing matches air handler
- Convertible for horizontal or vertical configurations

Discharge Plenums and Grilles

- Vertical, free discharge applications
- Heavy gauge sheet metal casing matches air handler
- Satin-finished, 4-way adjustable louver grilles

Return Air Grilles

- Vertical, free discharge applications
- Satin-finished, non-adjustable louver grilles
- Replaces front lower access panel

Mounting Sub-Base

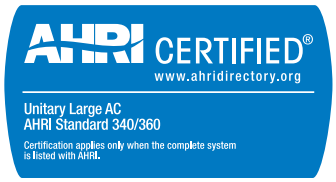
- Vertical floor mount configuration requirement
- Heavy gauge sheet metal casing matches air handler
- Provides additional clearance for condensate drain trapping
- Required when isolators are used

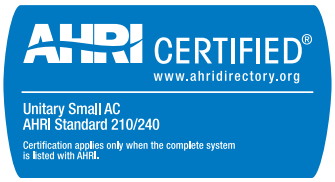
Vibration Isolators

- Neoprene-in-shear or spring flex choice
- Floor or suspended applications
- Reduce vibration transmission to building structures, equipment, and adjacent spaces
- Reduce noise transmission to building structures, equipment, and adjacent spaces

Oversize Motors

- High static applications
- Motor, sheaves, belt included


AHRI CERTIFIED®
www.ahridirectory.org
Unitary Large AC
AHRI Standard 340/360
Certification applies only when the complete system is listed with AHRI.


AHRI CERTIFIED®
www.ahridirectory.org
Unitary Small AC
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

TRANE

Trane optimizes the performance of homes and buildings around the world. A business of Ingersoll Rand, the leader in creating and sustaining safe, comfortable and energy efficient environments, Trane offers a broad portfolio of advanced controls and HVAC systems, comprehensive building services, and parts. For more information, visit www.Trane.com.

Trane has a policy of continuous product and product data improvements and reserves the right to change design and specifications without notice.

©2015 Trane All rights reserved

SS-PRC029G-EN 03 Mar 2015
Supersedes SS-PRC029F-EN (May 2014)

We are committed to using environmentally conscious print practices that reduce waste.

Ingersoll Rand